

## **NEWS AT HOME**

Acid Rain Sill Put on Hold...... 49 Antifriction Coating Developed .... 5 Celsnese Forms New Unit . . . . . . . 9 Degusse Acquiree Metz...... 4 Disinfectant Problems Cited ...... 5 DPT âtudy to Segin . . . . . . . . . . . . 5 FIFRA Approved by Genete...... 3 Fuel Ethenol Plen Expands ...... 9 Groundweter Guides tasusd..... 4 Hazardoue Weete Rules Tighten ... 4 Household Cleanser Sales Up ..... 9 Methane Technology to be Used ... 9 Nemeticide Approved.....4 NL Gives Up Control . . . . . . . . . . . 5 Pickens Recommends Merket . . . . 9 Plastics Margins Improve ...... 5 Potash Makers Pessimistic . . . . . . 7 Polymer Institute to Market R&D ... 7 Secret Date Olli Pessed . . . . . . . . . 5

## **NEWS ABROAD**

Superfund Running Low...... 5

Toxic Dump Endangers Mo. Town.. 3

Carbide Has Bhopal Suspect .......3 L'Air Liquid Sids for Sig Three ......7 Magnesium Projects Plennsd.....4 Pesticides Hurt Immuns System .....4 Pisatice Polluting Ocean ...........4 PPG Expands Talwan Silica Unit .....4 Toner Case Accepted......7

#### THE MARKETS

AGRICULTURAL CHEMICALS	7,27
ALIPHATIC ORGANICS	19
AROMATIC ORGANICO	12
COATING MATERIALS	29
DRUGS	22
PINE CHEMICALS	94
FLAVORING MATERIALS	30
HEAVY CHEMICALS	7,27
OILS, FATS & WAXES	10
PERFUME MATERIALS	3(
PLASTIC MATERIALS	2

# **Buy Grant's Dioxane**

The fast shipment and 99.97% purity are free.

**GRANT CHEMICAL** 



# Sulfamic Acid

**POTASSIUM** 

**\**Yhittaker.

FORMATE

BICARBONATE

TOUSON GUINGAL CARROLLANDI 645 FIFTH AVENUE, NEW YORK NY. 10022

• SULFITE Solution

OXALATE

PHOSPHATE

ACS & Technic

**公司,太小山水上的。**如何可以上的收拾。 **这一次**,

NICKEL

# **CUSTOM PROCESSING**

POWDERED, FLAKED, PELLETS OF LIQUID, LAUNDRY SOAPS,

OILET SOAP BASE, BUILT SOAPS, SOAP LUBRICANTS,

CUSTOM FORMULATION and PACKAGING

17th and Fedoral Streels, Ca Talephone: (609) 966-1526

CONCORD CHEMICAL CO., INC.

CP6 offers a vary broad rengs of specialty chemical processing and solvent refining services, including custom manufacturing of specisity monomers and polymers, at two lergs, modern, well equipped fecilities located in Old Bridge, New Jersey and

Distillation

#### Unit Processes

- . ALKYLATION CHLORINATION
- . ESTERIFICATION METHYLATION
- NITRATION R POLYMERIZATION
- · QUATERNIZATION
- SULFONATION

. FULL VACUUM

• SUPER

. HIGH TEMPERATURE • WIPEO FILM

FRACTIONATION

#### • BATCH . SLENDINO CONTINUOUS

- CENTRIFUCINO • EXTRACTIVE
  - CRYSTALLIZATION • FILTRATION • REFRIOERATION

Other Services

- PILOT PLANT . SOLIOS HANDLING
- VACUUM ORYINO TRANSESTERIFICATION . TEMPERED WATER

Write for Processing/Facilities Bulletin #781

CPS CHEMICAL COMPANY P.O. BOX 162, OLD BRIDGE, NJ 08857

Old Bridge, NJ W. Memphis, AK (201) 727-3100

(501) 735-8750



**CMR MARKET INDEX** CHEMICAL MARKETING August 15, 1986 .... 151.54 REPORTER's market index of chemicals and related materials August 8, 1986 . . . . 151.43 (100=1974 sverage), based on July 18, 1988..... 153.05 97 key commercial chemicals, August 16, 1985....153.12

Chemical Prices Start on Page ??

METHIONINE: Producers say further price in the

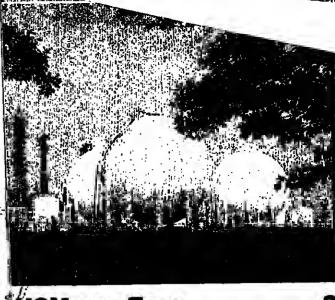
BE RICHT THE PIRST TIME

CP Chemicals, Inc., Arbor Street, Sewaren, NJ 070

possible in 86 .... ORGANIC PERIOXIDE: Producers say July price h

CAPROLACTAM: Supplies are expected to remain its
with good demail.

PALM OIL: Prices are falling this to everal PP



VCM on a Tear

# NSIDE CMR

े लेक्सक्रिकाम कराइनेट कर अग्रह

NEWSPARE

OL PRICES: OPEC sgreement provokee a swift reaction at the basic patrochemical level. Some analysts doubt perfor-............Page 3

APAPI New entry in the field has disputed impact on this merket. One advantage: Inherited base; Another question, what about Celanese?.....Page 4

SULTURIO MARTI Despite sinua a Noranda Minss iscility, Northeast region eeems to be holding up. Septamber return 8890 ..... Page 7

CHEMICAL INCOME: It's seen 22 percent higher in 1987 than it was this yeer, when it grew 35 percent. Dow, ICI bene-Page 9

SWEETENERS: Pfizer enters woold-be competitor to aspartahair PDA approval pipeline, it colliciake yeere to complete the Pocess ...... Page 7

SUPERFUND: CMA is apparat wriner in battle to keep feed-Now Further damage to guif Was leared ..... Page 5

ANVIRONMENT: One anaet sees ready solution to plant coblems. An ounce of prevenfor a better than a bound of Page 5



Transplantation of the

Ashland Ashland Chemical Company

Inorganic Products Department Petrochemical Division PO Box 2219 614) 869 4124 Columbus OH 43216

Variation of Table (Verilia)

# **NIACINAMIDE USP**



Serving the Chemical Industry since 1880 1446 East Putnam Avenus Old Greenwich, Conn. 08870 64 Oriend Squera Orive, Suite 110 Oriend Park, IL 60462 312/480-0772 901 Dove St., Suite 228 Newport Seach, CA 92680 N.Y. Tioline: 212/248-9680

# FERRIC CHLORIDE ANHYDROUS

Currently etocked for use in catalyzing chlorinations and polymer-izations: weler treelment, pottery and ching production, brickwork coloring and metal etching.

(800) 526-1072 EXT. 5446, IN NJ (201) 263-5446 FOR ADDITIONAL INFORMATION

BASP Corporation Chemicals Division

BASF

The reliability of the biggest inventory backup in the industry

U.S. Borax delivers. (800) US BORAX, toll-free.



MEBORAX BORATES. EXPLORE THE POSSIBILITIES.

# CHEMICAL MARKETING CUES

are mostly successful

export movement

DRIOR CHEMICAL CORPORATION

420 LEXINGTON AVENUE NEW YORK, N.Y. 10170 PHONE: (212) 972-9811 78X: 710-581-3945

**Ferrous** 

Sulphate

Heptahydrate

Moist Copperas

Soft and

two weeks sgo, last month and

last year.

CHEMICAL MERRODO STURIOR STURIES SON COMPLETE

# Oil Effect on Petrochemicals Is Swift

The current firming trend in the crude oli market has provoked a swift reaction from basic petrochemicai producera. Benzene spot prices increased 10 cents per gailon in August, and ethylene producers launched a 2 cent per pound increase for September 1. Severai other products have also been increased in price, and one observer claims that petrochemical prices will be hiked "across-the-board" by the fourth quarter.

Underlying this trend, sources say has been firming crude oil prices on the futures market precipitated by ao agreement in early August by members of Organiration of Petroleum Exporting Countries to install production limits in September. Actual prices for crude paid by oll refiners have also increased, one source says, rising from an average price of about \$13 per harrel just before the OPEC accord was announced o about \$14.25 per barrel now. The average seiling

price of crude oil in the Gulf also Increased slightly in July from a low of \$12,25 per barrel.

As spot benzene prices and other chemical values were hiked in reaction to and anticipation of rising crude prices, several analysts were skeptical that a sustained run-up in oil prices will actually occur. Ian James, senior economic analyst for E.I. du Pont de Nemours & Co., doubts that the current OPEC agreement will aucceed any better than several preceding ones that quickly crumbled. He also points out that most of the current oil price increases are paper transactions, and very little has happened to actual delivery Continuad on Page 24

SAUDt CRUDE MOVES OUT: Some enalysts doubt that the current OPEC agreement will hold up any better than the previous ones. So far most price increase are paper trensactions.



# **EPA Using Risk Guidelines Despite OMB's Objections**

will cooling to use worst-case assumpwill cooling to use worst-case assumpAIHC praised the guidelines for their ilons lo assessing health risks from exposure to hazardous materials, the agency said last week.

An EPA spokesman confirmed that the agency is retaining use of worst-case assamplers over the objections of Office of Management & Budget, which feels the guidalines could exaggerate health risks.

In a letter dated August 12 to EPA adminstrator Lee Thomas, Wendy Gramm, OMB's dministrator of information and regulatory sfialrs, expressed the concern that "if worstcase assumptions and upper-bound estimates are used and repeatedly combined, they wilt produce a final risk estimate that is almost certain to overstate the real risk by hundreds of thousands of times."

The new EPA guidelines, expected to be published shortly in the Federal Register, will be need by the tree of the tree of the published shortly in the Federal Register. will be used by EPA scientists to assess the risk of pollutaots to five areas: carcinogenicity, mutagenicity, developmental toxicities, chemical mixtures and exposure.

"These guidelines set forth principles and procedures to guide EPA scientists in assessing risks and to inform agency monagers and the public about the nature of our procedures," Mr. Thomas sald last week.

"They represent a concerted effort to pronote consistency in sgency risk assessmants and reduce uncertainlities in the scientific data base supporting our management of risk, Mr. Thomas added.

The risk assessment guidelines mat a generally lavorable response from the Ameri-

Environmental Protection Agency can Industrial Health Council, an industry

"flexilibility and receptivity to new scien-tific developments." At the same time, the group cailed for increased cooperation among scientists from industry, government, acndemia and labor to insure that as new scientific knowledge in such areas as mechanisms of action, pharmacokinetics and statistical modeling is developed, it is incorpo-

rated in the guidelines as quickly as possible.
Ronald A Lang, executive director of
AIHC, said last week that the council was still reviewing the science base of the new guldellnes, but that, overall, the project represented an "import step in improving the estimation uf public health risks."

"We particularly welcome the flexibility provided in these guidelines to enable quick incorporation of new scientific knowledge in assessing the risks of both cancer and other chronic health hazards," Mr. Lang sald. "At the same time, a careful reading of the guidelines indicates there still remain some inconsisiencies hetween scientific principles spelled out in the document and the description of how they will actually be applied in proctice hy the Agency's risk assessors. These need to be addressed in the near fu-

"In the very important area involving the statistical modeling to be used in estimating risks, we are pleased that EPA has aiready undertaken research directed towords developing a biologically-based model, a clear step in the right direction. We hope a high

# Carbide Takes Stock Of Divestiture Progress

Carbide's massive restructuring has sublairs at Union Carbide recently said that from 1984 to 1986 announced divestitures will reduce company sales over 20 percent to about \$6.8 billion, while trimming assets by Percent and cutting the haad count roughly 50 percent to 58,000:

Speaking st a Societe de Chamie Indus-triele, American Section, meeting in New York Mr. Wishart said that after disposing of major husiness lines like the battery products group and home and acts products business lines like the battery products group and home and acts products business upone focused, efficient and ultimately more focused, efficient and ultimately back this claim up her Wickert says

To back this claim up, Mr. Wishart says civide posted a second quarter operating

Union Carbide Corporation continues is sell off assets as a means of reducing its glant debt. In July, the company put its large agricultural chemical unit on the block. That action has been followed by Carbide's announcement last week that it intends to sell its electrical carbon business.

Union Carbide Corporation continues profit gain of 27 percent, including a 35 percent surge in operating profits for the Chemicals and Plastics group. Per share income rose 17 percent during the period, he added. On the down side, large interest payments from its stock buyback program last Winter reduced income in the period 46 percent to \$55 million, but the company also was able to reduce its domestic dabt by slightly more than 21 hillion, by using money gained from stantially reduced the company's size.

Alfalian Wishart, vice-president size. remained well above \$4 billion.

Therein lies the rub for financial analysts. Many analysis praised Carbide for its new oparating structura and weil positioned business lices, but they also expressed concern about the company's debt burden.

about the company's debt burden.

One analyst says he recommends Carbide's stock, but adds, "they've got as large a challenge as facing anyone in the industry over the next several years," in managing its dabt. He puts this statement into proceeding the facing that Carbida will pay bust \$550 million in interest payments this just, while it posts \$510 million in earnings before interest and taxes, a ratio of 1.5 to 1.

This, be says, compales to similar interest.

Continued on Page 21:

# Chemical Number 9 Chemical Number 9 Number 9 Number 9 Number 9

# **VCM Rates Rise; Export Sales Grow**

vinyl chloride monomer, coupled with a vigorous housing industry at home, has pushed US VCM operating rates to their limit and observers look for more of the same next year.

Recently released production figures com-piled by International Trade Commission show a 7.3 parcent increase in US VCM output for the first of this year compared to last year. Total output this year, through June, is pegged by ITC at 4.1 billion pounds.

With nameplate cspacity at about 8.39 bil-iton pounds annually. US operating rates have been well over 97 percent for the Januory-through-Juna pariod

The major portion of increased US output bas been for sala overseas. Strongar values for the Japanese yen this year have boosted PVC resio sales to that country. This has in turn boosted demand for raw material US VCM lo Korea and Taiwan, the major PVC

For the first six months of this year US producers have shipped 193 million pounds of VCM to Korga. This is 75 percent higher than last year's rate of export to that country. Taiwan has also been an active customer of US VCM this year. By June Talwan had already exceeded its total 1985 consumption of US VCM by about 5 million pounds, bringing their total to 54.4 million pounds.

In total US VCM exports, for the first six months of the year are about 295 million pounds ahead of last year's semi-annual mark of 422 million poulds.

According to one US marketer active in the

export business, increased exports have not been driven by greater damand in any partic-ular region. "Demand overseas has increased slightly" says the marketer, "but countries with weaker currencies are exporting more to those with strong currencies."

to those with strong currencies.

A failing dollar this year relative to the Yeo has enabled US marketers to cash lo on greater Japanese buying power with raw material VCM sales to Kerna and Taiwan.

Delta approximate 260 million punds of increased production for the first six months.

increased production for the first six months of this year, relative to last year, about 80 VCM plants have been running close to 100 permillion pounds went to Koreg and Taiwan, cent of papeolty and should continue to do so next year.

A growing worldwide appetite for US kept the stack out US sales. According to Department of Commerce, the first seven months of this year have shown a 9 percent iocrease fo construction atarts of new homes with an annualized figure of 1.818 million

new housing units.

Early forecasts of 5 to 6 percent growth in total VCM for PVC demand will be easily reached, say suppliers. Last year 7.4 billion pounds of VCM went into PVC production.

Housing thia year has been fueled by failing interest rates. Next year lendlog rates ara expected to remain low and maintain the current expansion in VCM for PVC.

While the US industry is currently running "sli out" increased domastic damand can be siphoned out of export sales. Howevar, htgh operaling rates can still lead to supply

When exports are committed two months Continued on Page 18



CHEMICAL MARKETING BEFORTER 4、周州市大学的大学。

# Penco Claims APAP Inroads **But Competition Has Doubts**

Penco Inc., the Lyndhurst, N.J.-based concern that entered the domestic acetaminophen market last February, says it is making good progress, but the competition says the new group isn't posing much of a problem.

Penco bought its fecility from Penick Corporstion, which closed its 5-million-pound scetaminophen plaot at the end of 1985. Penco says the compeny is eble to increase output to nesrly 7 million pounds if neces-

sary.
"Wa baven't seen (Penco) making eny significant impact," ssys one competitor. "I would'va expected them to make more noise then they'va mede."

A Penco epokesman agrees that the compeny is still establishing itself, but insists that the company is "pretty much on sched-ule, or somewhat ahead, in terms of volume

He edde the company is "pleasently sur-prised" by the fevorebia response of former Penick customers. "Keep in mind, we divorced oursaives from the merket. That had forced evaryona to make other commitments. (But) I don't think any of our former blg customers won't at least consider us"

when making buying decisions in the future.
When Penick decided to sbut down, it told
customers it would produce enough beforehand to aupply their requirements through March 1886. Thus, because Peoco entered in February, soma customers nevar had to seek material elaawhere and Penco entered with a base. "Wa have every intention of being a major source to acetaminophen in 1887. We intend to improve our market chere," says

Overali, market prices have been stable. The two largest producers, Mailinckrodt inc.

## Olin Corp. Acquires Distribution Firm

Olin Corporation bas acquired the assets of Kern Products, a distributor of swimming pool products in Southern Californie and Arizona, from Katy Industries. The purchase price waa not disclosed.

Kern Products distributes a complete line of pool products, including "Sun" pool chemicals made by Oiln. Kern has annual aales of \$20 million and employs about 100 people. Peter Koscha, Olin'a general manager o

pool chemicals, seid that the acquisition will provide Olio the opportunity to improve its distribution in the Southern California pool

"This acquisition rainforces our commit-meet to our pool chemical distributor netowkr," he eaid: "Kern will belp us better understand distributor operations and needs and thus en able us to improve our distributor programs. It will also broaden our knowiadge of the overall pool water treatment

Olin also makes "HTH" and "Pace" awimming pool chemicals.



Leonard J. La Magna, who has been eppointed director of purchasing for Emery Chemicals. He will be reconsible for all purchasing solvities at the division level.

end Monsacto Company carry ilst prices of \$5.95 per pound for powdered end granular meterial, and \$7.55 per pound for direct com-pression grede. In an effort to be more com-Continued on Page 22

### **Air Products Process Used in USSR Plant**

Alr Products & Chemiceis, Inc., says that its Houdry Division's "Detol" hydrodealkyle-tion process has been incorporated in a ra-cently completed benzene production fecility

The process hydrodealkylates elkyl benzenes end hydrocrecks non-arometics to pro-

The plant in the Soviet Unioo produces oenzene from en impure toluene concen-

The plaot, which begen operating in De-cembar, 1865, has echieved its designed production of 120,000 metric tons per year.

Air Products ilcensed the technology for the benzene plant through Asahi Chemical international, which designed, built, and pro-vided start-up services for the plant on behalf of the Soviet Ministry of Oil Refining & Petrocbemicai industries.

The plant is the first of threa banzene facil-Ities to be built in the Soviet Union undar on a contract. Ali three plants will incorporate the Detol process. The second plant is scheduled to begin operating in eummer 1888.

# **Goodrich Expands Vinyl Compound Unit**

B.F. Goodrich Compeny says it will expeed and modernize the vinyi compounding plant in its Geon Vinyl Division's Carson,

The vlnyl compounding expansion will boost capacity at Carson by 50 percent whan it is completed at the end of 1987. The company does not reveal capacity figures, a pokesman aays.

The Carson plant aupplies fabricators of business machioe housing, appliance components, verticel blinds, wire and cable insulation, medical devices and other products in tha Western US. "Expansion of our Carson facility reinforces our commitment to the growing West Coast vinyl compound market," says James F. George, Goodrich's sen-lor vice president in cherge of "Geon" vinyi

in addition to making vinyl compounds, the Caraon plant serves as a distribution center of vinyi resins meda at other Goodrich

# **Cyanamid Barge** Struck by Lightning

Lightning struck a barge containing about 50,000 gallons of ecrylonitrile at American Cyaoamid Company's Fortier plant at Weggaman, La., lest Tuesdey afternoon (August 26), ignitiog a blaze that took firefighters wo hours to extinguish. No serious intries have been reported. juries have been reported.

According to a Cyanamid spokesmen in Waggaman, workers were loading an acrytonitrile shipment onto the barge at the plant dock on the Mississippl River, when a storm moved into the erea. Workers suspended iceding operations before the lightning

About 36 peopla were treated and released for eye and throat irritations, end enother four peopla were admitted to an sree hospltai for observation. Thay were expected to be reieased leta last weak.

# Revion Launches Bid

Revion Group last week commenced a previously ancounced tender offer for any and all of the outstanding sheres of Frigitronics Inc. at \$35.50 per share, or approximately \$116 million for the entire company. CHEMICAL MARKETING REPORTER

THE WOOD NOT THE WALLER Sectional Living



Joal D. Litow, who has been eppointed vice-precident of finance and controller by M&T Chamicals inc. in this position, ha le reeponeibla for all of tha company'e financiat activitias. Mr. Litow has basn controller since 1979.

# **BASF and Degussa** Slate Venture in US

The pertnership between BASF Corporation and Dagussa Corporation of which the perent compenies are elready angaged in a similar venture in Europe for the production of acetal copolymer will be called the Uitraform Company and will be located at tha Degussa plant nesr Mobile. Its polyacetal product is tradenamed "Ultraform."

The new plant is designed for a capacity of 24 million pounds per year. The production of polyacetal, en engineering polymer, is based oo en integrated process in which trioxana serves as the principal monomar. Trioxane capecity will be 14 million pounds a year.

The planning of construction and engineering bas been completed, according to BASF.

The plant is expected to atart production in

Both Degussa and BASF own pateots on polyacatal. Their participation in both the German and the US joint ventures is on a fifty-fifty basis. Tha German plant cama on stream in 1871 and bas been axpanded a number of times since then.

## **Big Three Labels** Lawsuit 'Frivolous'

Blg Three Industries last week called a cless action lawsuit egainst pert of its pro-posed merger agreement with L'Air Liquide SA "frivolous and without merit."

Tha sult, Morria Kurtz vs. Big Three Industries Inc. et al, was filed August 18 in Harris County, Tex., aileging that Big Three and its directors braeched their fiduciery duty to company shareboiders by granting an option to American Air Liquide Inc. to purchase approximataly 8.7 million sheres of Big Three at \$24,125 a share.

The sult furthar charges that American Air Liquide and its pereot, L'Air Liquida, alded and abetted the alleged breech of fidu-

Tha option was granted in connection with L'Air Liquide's cesh tender offer for all Big Threa shares at \$28 per sbare. The tender

## **DSM Starts Up** A C9 Cracker

DSM recently started up its new C9 resinfaed production facility at Beek, The Netherlands. Nameplate capecity of the naw plant is 40,000 MT per year, based on feedstock out of

one of the company's two steam crackers.

DSM thinks the high utilization rate of the two crackers and the employment of mainly liquid feedstocks (naphtha and gasoil) will ensure availability of C9 resinfeed.

# Chemical Marketing Reperter

Founded October 18, 1871, by William O. Alleon Directed 1900-1942 by Harry J. Schnell Schnell Publishing Company, Inc. 100 Church Street, New York, N.Y. 10007-2894 (212) 732-820. Telex Number: 228113 CMR VR. Cable Address: Reporter, New York, Copyright 1888 by Schnell Publishing Company, Inc.

ABC

**EDITOR-IN-CHIEF** MANAGING EDITOR Curtia A. Deyrup
ASSISTANT MANAGING EDITOR NEWS EDITOR Owen Kean
WASHINGTON EDITOR

Glenn Hase, 1057C Netional Press Building. Weshington, D.C. 20045 MARKET RESEARCH EDITOR Vincent O'Sullivan SENIDR EDITOR

James V. Gubitosi STAFF EDITOR8 Ronald Beglay, Nicholse Boyle, Stapha Kearney, Philip Mann, Michael McCoy, Agus Shanley

CONTRIBUTING EDITOR. Sean Milmo BUSINESS STAFF VICE-PRESIDENT OF MARKETING- John A. Mil

heren NIRECTOR OF ANVERTIGING CALES- J. Rould

neren
IRECTOR OF ANVERTIGING 6ALEA- J. Ronad
Incran
ASSISTANT PUBLICHER- Don L. Richards
NEW YORK (212/732-8820)- Amanda H. Bos. Kenneth M. Carroll; Robert W. Waksfield, and
Wilson B. Winney
CHICAGO (312/877-8880)- Charles H. Osetmann,
Jemes C. Oestmann, Arlington Publishers Representatives, Inc., P.O. Box 1555, Arlington
Heights, III. 80008
HOUSTON (212/732-8820)- Wilson S. Winney,
Schneil Publishing Company, Inc., 100 Church
Streel, New York, NY 10007-2894
LOS ANGELES (218/480-8001)- Richard W.
Walker, R.W. Walker Company, 2718 Ocean
Perk Boulevard, Sulle 1010, Bents Montos,
Callf, 90405
SAN FHANCISCO (415/768-8558)- Richard W.
Walker, R.W. Walker Company, 2718 Ocean
Perk Boulevard, Sulle 1010, Bents Montos,
Callf, 90405
EUHOPE (331/4808-8886)- Robert Brockman,
American Publishers Representatives, Inc., No.
4 rus Robert de Flers, 75015 Paris, France
JAPAN (08/633-1151)- Hiroshi Bato, IRM, Inc. 4,1
Chome, Higashi-Azebu, Minato-ku, Tokya,
Japan
CHINA (Telt 5-8332181, Telex: 78868 AMRIST

Jepan
CHINA (Tel: 5-8332181, Telex: 78868 AMRK)
HK)- Allison Lutz, Chins Consultante Intentitional (H.K.), Ltd., Suite 805, Guardian House
32, Ol Kwan Road, Happy Valley, Hong Kong
CMR AD PRODUCTION- Hel-yen Brenton, Philia

Oswald OPD CHEMICAL BUYARS DIRECTORY- Garante Carideo, Veronica Giliotti PUBLISHER Arthur R. Kavaler



Arthur R. Kavaler

CHEMICAL MARKETHO REPORTER ISSN-890-080 Vid.
230, No. 0, September I, Ma.
230, No. 100 Carris Sine.
230, No. 100 Ca SCHNELL PUBLISHING CO.

> sitorneys contend that there is a direct link between the herbicide and the veterans' in-A \$180-million out-of-court sattlament was reached two years ego by the plaintiffs sad seven chemical companies who manufactured Agant Orange. Since that time, the fund has grown with interest to some \$225

While disputing the link between Agent Orange and the illnesses suffered by the veter-sas, the chamical companies said they Agreed to settle out of court to avoid the costs of protracted litigation.

Lawrenca G. Rawi, who has bean named chairmen of Exxon Corporation's board of directors, succeeding Ciliton C. Garvin, who reaches mendatory retirement aga in December.

**Thermoplastics** 

Thermoplastica wlll reach 4.7 million

tons in 1990, up from 4.2 million last

year and 3.2 million in 1982, according to

Bayer AG, In the same time period, the

company thinks polyurethanes con-

sumption will jump to 4.5 million tons in

1990 from last year's 3.6 million tons and

Bayer's chairman of the board of manage-

meot, Hermann J. Strenger, told reporters at the company's Leverkusen headquarters in

West Germeny lest week that competition in

the market for high-performance polymeric

msterials is going to get tougher, but he feels Bayer is well positioned to compete in the marketplace. Beyer devoted 40 percent of its

plastics research expenditures last yeer to

In opening remsrks at e press preview of Bayer's plans for K-68, the international plastics show scheduled to open its doors at

Duessaldorf lo early November, Mr.

Strenger said the company's most spectecu-

lar exhibit woo't eppear at the fair at ali.

The exhibit is the Ulenbargerstresse

bridge at Dusseldorf, the first road bridge in

the world to be reinforced with prostressed

rods made of e bigb-performance composite (Bayer's "polysts!") instead of pretonsioned steel rods. The bridge opened to truffle in

Stayed by Court

A Federal appeals court last week

blocked the distribution of a muiti-mii-

lion-dollar settlement fund to Vietnam

Judge Weinstein ruled that the link be-

tween Agent Orenge and tha veterans' vari-

ous illnesses was tenuous, and that benefit

sability rether than exposure. Plaintiffs'

its should be based on the extent of

Agent Orange:

Payout Plan

the 2.9 million tons recorded in 1982.

**Seen Gaining** 

By Bayer Man

# S'Fund Tax Increase On Chemical Feeds **Doesn't Seem Likely**

have convinced legislators that feed-stock taxes should not be increased to challed by Rep. John Dingell (D-Micb.), bamstock taxes should not be increased to heip finance a new \$8.5 hillon Federal auperfund program approved by a House-Senate conference committee thia Summer (CMR 8/4/86, pg. 3).

But so fer, even the hint of e consensus has felled to emerge on how Coogress should pay for the massive new toxic waste cleanup progrem, and no date has been set for when a seperate conference committee will convene o consider the Issue.

'They ell iaft town without determining when they'll get together," a Congressions alde close to the situation said lest week. It is enticipated, bowever, that members of the superfund tax conference will meet shortly after Congress returns from its Lebor Day

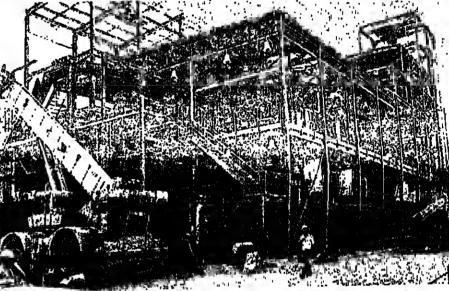
After the House and Senete pessed cooflicting superfund bills, two separate confer-

mered out an agreement on the size end scope of a new superfued bill, end it is now up to the tax conference to figure out how to

The question of superfund finencing took s back seet to tax reform, and "there will be some people who will went to wait until tax reform is tbrough" before teking up superfund, eccording to a House alde, eithough it is enticipated that a new superfund program will get though the full House and Senete before Congress adjourns for the Fell alec-

The oid superfund law wss lergely flnanced by e tax on basic petrochemical feedstocks, emounting to some \$300 million a year. The five-year, \$1.8-billion progrem officially expired last September, and has been

Continued on Page 16



HERCULES CARBDXYMETHYL CELLULO8E: New plant for producing CMC le in the final eteges of construction at the Hopawell, VA., plant complex of Harcules ino. The new unit, which is scheduled to be infull operation by the fourth quarter, will have a 42 million pound a year annual especity. Herculae is epanding about \$15 million to improve its CMC facilities, part of a \$100 million modernization program for water soluble polymer manufacture at the alta.

# **Chemical Distributors Widen** Their Impact on the Market

Induatriai chemicai distributor aaies in the United States are forecast to grow 5.2 percent a year, reaching \$12.8 hillon in 1990, up from an estimated \$9.8 billion in 1985, as measured in constant 1985 doilars, according to a recently com-pieted study by Charles H. Kline & Co., a Fairfield, N.J. market analyst.

Chemical distributor sales ere expected to veterans exposed to Agent Orange.
The stey was sought by veterans' attorneys, who ere opposed to the distribution plan ordered by Federal district court judge Jack grow more than 50 percent faster than comparable chemical consumption overail. The driving forces behind the greater seles growth by distributors include: producers' consolidating of sales forces and expanding product authorizations to reduce seiling costs; producers realizing a greater netback on certain products by seiling through distributors; customers' maintaining i tributors; customers maintaining leader, inventorias and requiring shorter delivery times; distributors expanding the services and products offered to better meet customar needs; and distributors developing higher levels of professionalism.

Other factors ilkely to directly influence the future of chemical distribution in the United States include distributor consolidation; entrepreneurial producers, imports liability insurance cost and availability; and retionalization of domestic manufacturing

capacity.

Klina reports that over 1,000 industriel chemical distributors operate in the United States. Although the majority of companies

iceding five firms account for nearly \$2.5 billion, or 25 percent of total 1985 industriel chemical distributor sales. Future mergera and ecquisitions, es well as compenies axiting the business, will result lo fawer but larger firms.

Increasingly, chemical producers use dis-Increasingly, chemical producers use distributors not only as a sales channel but as an integral component of their total marketing effort. Although chemical distributors have existed for decedes, thay have increased in importance during the last ten years, according to the report. In the past, some producers and distributors as a processary evil. viewed distributore as a necessary evil.

Most producers now view distributors in a

positive light — referring to the reletionship. as a partnership — end consider distributors as a dynamic extension of their sales and

marketing group, according to Kline. Chemical distributora sarva a diverse range of end users in more than 25 industries. According to results from the new survey, peints and coatings is the leading end-use industry served by distributors, accounting for over \$1 billion or 10 percent of total sales by industrial chemical distributors."

More than one quarter of the total raw materials consumed in the paints and coatings industry is supplied by distributors.
Electronics and pharmaceuticals are two end-use industries forcest to exhibit aboveverage growth in distributor sales through

Continued on Page 25

# **Environment: Solutions** Seen at Hand

Solutions to the major industrial environmentai probleme are readily avallable, an engineer told the American Institute of Chemical Engineera meeting in Boston iast week. Leaking wastea and raw materials, underground storage tanks which haven't been tested for atrength and durability, and uninspected hazardous material etorage containers sre among the most frequent environmental "sins" committed by US indus-

David I. Brandwein, an engineer with Environmental Risk Limited of Bloomfield, Connecticut, told members of the AIChE that these arrors are common to eii plants, regardless of size, geographic location or type of Industry.

Mr. Brendweln based bis conclusions on environmental audits be has conducted at 88 facilities, including general menufacturing and metal-finishing plants, municipel soild waste landfills, wastewater treatment sites and chemical and petroleum operations.

Other problems Mr. Brandwein encountered were incomplete enelyses of hazardous wastes generated or stored on site, lnappropriate handling and disposol of wastcoils and electrical transformers containing polychlorinated blphenyls, inadequate covers for storm drains, and poor groundwater monitoring and hezardous waste contigency pro-

Mr. Brandwein suggested that most of these common problems "are not items reuniting capital improvements or costs." In fact, if not corrected, he said, they "could result in more significant costs to the facility than the cost of 'doing it right the ilrst time'.

Often oll that is needed, Mr. Brandwein ergued, la "additional training or documenta-tion, or new procedures." Company person-

Continued on Page 26

# **Dow Study Finds** Lower Mortality **Among Workers**

Dow Chemical saya its employees in its Michigan Division and headquarters unit continue to experience lower-thanaverage mortality rates from all major causes of death, including cancers, aithough one group of long-term hourly employees had slightly above-average number of deaths due to cancers of the

stomach, coion and proatrate.
These were tha results of an epidemiology program to evaluate the beaith experience of tha company's employees. This particular etudy, of more than 37,000 men who were employed by the company at the Midland or Bey City sites at some time between 1940 and 1882 expands on ao earlier study released in 1883. The earliar study showed that Dow employees had lower mortality rates than the general population.

The most recent study included comparisons between Dow employees and three other groups: maia residents of the US, Michigan and a seven-county East-Central Michigan

In comparison to the other groups, Dow says, it's employees had lower than expected mortality due to each of the major causes of death including total cancers.

The study found no support for increased mortality from cancers of the brain, par-creas and skin previously reported for some non-Dow petrochemical workers.

A group of 10,000 hourly employees with twenty or more years of Dow service exhib-ited more than normal fatelities from stomach, colon and prostate cancers. For example, 80 stomach cancers occurred among the Dow workers, whereas 24.4 were expected based on the US population.

CHEMICAL MARKETING REPORTER

September 1, 1986



vents, and surfactants, representing most major producers. Custom blends, too.

Each district also concentrates on needs of local mdustries. In the Rocky Mountain Region this includes specialties for gas and oil field production. electronics, paint and coalings, and intermediates

chemical waste service that's unique.

Ashland is America's number one chemical distributor. We exist for you, and with 77 cities called home, we're probably neighbors. Check the Yellow Pages, or write: Industrial Chemicals & Solvents Division, PO Box 2219, Columbus, Ohio 43216.

Ashland

Ashland Chemical Company

Deriver (303) 789-1883

Coastal in Cathird Seat?

fracted legal battle against seven phos-phate firms moves into a new phase in early February, when a trial is scheduled to begin in Federal court in Florida betweeo Coastsi and one of the phosphate firms, International Minerais & Chemicai

At least one analyst thinks IMC would do well to settle the suit out of court, saying defeat for the firm would be financially "devastating."

Indeed, Coastal is seeking \$3.5 billion in compensatory damages alone from IMC, plus whatever punttive damages the jury night award. Coastal won't say what it is seeking from the other phosphate compa-nles, including Mobil Corporation, W.R. Grace & Co. and American Cyanamid

Calvert Crary, a litigstlon analyst at Bear Stearos & Co. in New York, says the "stakes are extraordinarily high" for IMC, sdding, "Their posttion does not look

Mr. Crary points to a May ruling by Florida's supreme court, overturning quiet titia deeds of the phosphate compa-

rivers and lakes.

Tha deeds are challenged by Coastal and the Stata of Florida. Coastai ciaims the phosphate firma wrongly removed millions of tons of phosphata from lands leased by Coastal from the state. It will be up to Coastai to prove in Federai court that the waterways in question are navi-

"You don't have to get an ocean liner up there" to demonstrate navigability," say: Bear Stearns' Mr. Crary, who thinks Coastal ahouid ahoot for an out-of-court settlement of around \$100 million. "No that much more could be recovered without putting (IMC) in serious jeopardy, according to Mr. Cracy.

Coastai decimed to comment on what it thought a fair out-of-court settlement would be, but expressed a willingess to negotiate. "From day one," a spokesman saya, "Coastal has always indicated it would rather settle than litigate, but thus far, aii it has received is the back of the

For its part, IMC bas expressed no inclination to settle out of court. "We feel we will be vindicated through the courts," ao

# **Plastic Molding Industry** Being Sought for Florida

Louisiana State University College of Engineering is seeking support from government and Industry to help Louisiana develop an injection-plastic-molding lodustry in the state.

Such an industry could bring \$500 million to Louisiana in five years and \$5 billion in 10 years, says Dr. Robert Mclillenny of LSU. Some 30 Louisiaos companics are currently producing resins for molding plastics, but the state has only 10 firms that actually mold the

"What this means is that the state is exporting low-priced raw materials, primarily to northern industrial centers, and importing high-priced finished parts from moiding

"If a major molding industry could be de-veloped within Louisisna, the state could cunvert its raw materials into finished pirces and export them as value-odded product,"

Dr. Mclihenny says,
The LSU engineer heads the LSU Engiocering Center for Annlysis and Instruclional Devalopment. The organization, made possible by a national Control Dota Engineering Ceniers Network prugram, could foster a plastic molding industry within the state, McIlhenny said.

"But to do that, we need a atrong commit-

Controi Data have already made the commit ment," aaid Dr. McIlhenny. He said some \$600,000 is needed to provide a stobie base for the University-industry program.

"Tic creation of a center for computeraided design of moids and computer-integrated engineering of plants has the potential for turning the existing plastics deficit situation around," he said.

Dr. Mcilhenny said the result would be that "smail start-up industries would be stimulated by the existence of a apecialized university research center and that these could then be expected to be followed by relocation of iarger compony facilities taking advantage of tire expertise concentration.

"We are definitely not thiking about a cottage industry," said Dr. Mclinenny.

Hc aaid in 1985 the total US production of resins was reported to be approximately 47.4 billion pounda, about one-third fabricated into formed plostic parts.

"If n modest price of \$3 per pound of fin-ished product is assumed, the total annual saics should approach \$60 billion. An aggressive program to bring this industry to Louisiana could result easily in the capture of 10 percent of the market, or \$6 billion per year."

Continuad on Page 25

# Owens-Corning Seeks Ways to Avoid Takeover

the hopes of discouraging an unsolicited takeover attempt by Wickes Companies.

Wickes bas mounted an unfriendly takeover attack sgainst Owens-Corning in recent weeks, the OCF board recently rejected a lion, \$74-per-share offer from Wickes. To defend against further Wickes offers, the OCF board unanimously approved the restructuring pisnlast Thursday:

The cornerstone of OCF's restructuring program will be the sale of the company's erospace and strategic materials group, acderespace and strategic materials group, acquired just last year. OCF says it expects to generate \$700 million in cash after taxes by using all of the acrospace group and other mindentified assets. The company also plans to teduce operating expenses by over \$100 million pext year; while slashing capital outly from \$220 million to \$100 million.

The cash generated by the assets sales will

The cash generated by the assets sales will

Owens-Corning Fiberglas Corporailon says it will undertake a broad restructuring and recapitalization pian in
the hopes of discouraging an unsolicited

be applied to an elaborate stock rapurchase
plan authorized by the board. Public stock
holders will receive \$52 in cash, \$35 principal
holders will receive \$62 in cash, \$35 principal
amount of new "Junior Subordinated discount Debentures" and one share of common stock in the recapitilized company.

In addition, OCF says it will raise \$1.5 billion in bank financing and \$300 million through the sale of senior subordinated debt in order to financa the recapitalization:
About \$325 million of the company's \$5.18 million in existing debt will remain outstanding. The company will also maintain a \$100 million "seasonal line" of cash for general

corporate purposes.

William W. Boeschenstein, chairman and chief ensuring officer at QCF, said in a statement last week, "the board felieves that the recapitalization (it approved is a final-cially superior alternative to the Wickes tender offer," which he says the board unanimously rejected. A special stockholder mously rejected. A special stockholder Continued on Page 52

# **Sulfuric Acid Mart Weathers A Strike**

Desplte a strika at Noranda Inc.'s Valleyfield, Quebec, zinc smelter, no serious disruptions have been caused in the Northeast sulfuric acid market. Noranda accounts are now being filled by acid from a number of sources. Observers say tightness in the market has resulted, but that no actual supply shortage exists.

The strike at the Noranda subsidiary. Canadian Electrolytic Zinc, began on or about June 6. While nothing official has been announced, indications are that workers are prepared to return in early September.
Also affecting sulfuric supplies are repsirs

at a government-run dock that services Noranda'a copper smeiter at Gaspe, New Brunswick. The repairs have interupted sulfuric shipmenta since the end of July. The company expects the repairs to be completed by the end of September.

The smeiter at Vaileyfield produces, on average, about 430,000 metric tons per year of 100 parcent acid, according to Noranda. The Gaspe facility makes about 120,000 metric tona per year.

Despite the large amount of acld taken off the market, Noranda says ail accounts are being filled, most at the same prices they had been paying. Other industry sources generally agree with thia, and say that, likewise, overail market prices have oot changed significantly since the strike began.

number of different ways. Noranda acid has traditionally been shipped to an Essex Chemical terminai in Baitimore, Md. Since the strike, Noranda has brought from three to five vessel loads of acid from Europe to service that terminal.

Pfizer Inc., a Noranda account at Groton, Continued on Paga 30



CIL AT SAYREVILLE: The company brought one of its plants back on stream early because of the etrika situation. The compeny acquired the twin facilities from NL some yeers back.

# Pfizer Sugar Substitute Enters FDA's Pipeline

entrant to the \$1 billion sugar substitute market to Food & Drug Administration for regulatory approval. The sweetener, alltame, is 2,000 times sweeter than sugar, Pfizer says, and has none of the negative side effects linked to aspartame, G.D. Searle & Company's hugely successful sugar substitute.

Pfizer says its filing petition was accepted by FDA on August 21. The company would not project when the food additive would reach the market, but one security analyst noted that based on the experience of other sweetener substitutes, the approval process could take up to five years.

Alitsme was discovered by Pfizer scientists at Groton, Conn, in 1979. The compound la a dipeptide-based amida, with the dipeptide portion formed from the amino acida L-aspartic acid and D-alanine. The sweetener differs from aspartame in that it uses

D-alanine rather than L-phenylalanine. High blood levels of phenylalanine have been linked to a condition called phenylketonuria, which when contracted by pregnant women can cause brain damage to the fetus. However this charge has not been conciuslvaly proven.

Pfizer also aaya aiitame has auperior stabillty to aapartame and won't encounter the shelf life problema associated with products containing "NutraSweet," Searie'a brandname for aspartame. The company also says alitame's heat stability will enable it to be used in baked goods, which a security analyst calls the sweetener "largest market potan-

Despite these apparent advantages, sources say it wiil take three to five years before alltama reaches the US market as a table top aweetener. One analyst aays the controvesy surrounding cyclamates, saccarin and now aspartame bas made sweeten-Continued on Paga 15

# **Hazardous Substance List** Is Lengthened by EPA

Environmental Protection Agancy has announced final reporting levels for 102 additional hazardous substances whose accidental spill or release into the environment must be reported to Federal emergency response authorities.

Under the superfund law, the Comprehen-sive Environmental Response, Compensa-& Liability Act of 1980 (CERCLA), 717 bazardous substances require reporting to Federal authorities when spilled or released into the environment (air, land, surfece water, groundwater) at or above specified lev-

Reporting requirements for all 717 sub-stances at levels specified by CERCLA have been in effect since the law was passed. The latest regulation formally re-talkings or adjusts the reporting requirements for 102 substances.

Spills or releases equal to or above the reportable quantity levels must be reported to the National Response Center. The NRC

will notify emergency response coordinatora who will then determine what kind of action is necessary to alleviate any threat or potential threat to nearby populations or to the

Under EPA's emergency response program, each of the agency's ten regions maintains emergency response personnel who are on call to respond to oil and hazardous substance emergencies. The US Coast Guard also maintains 12 district offices and other

units to respond to oil and hazardous substance emergencies.

The law requires reporting by persons in charge of a facility or vessel from which substances are raleased into the environment. at amounts of one pound or above, with the exception of higher amounts for some substances which were established earlier under the Clean Water Act (CWA) for spills into

waterways. NRC must be notified immediately upon discovery of such a release. If the release has Continued on Page 25

September 1, 1986 CHEMICAL MARKETING REPORTER

# MORE FOR

- New t-amyl peroxyesters (Lupersol® 546) for faster reactivity and better solubility.
- High purity peroxyesters -Lupersol 11, t-butyl peroctoate.
- Bulk delivery of dilute peroxyesters.

POLYESTERS

MORE FOR

# MORE FOR RUBBER/

- Luperfoam 329, new polyester foaming agent.
- New t-amyl peroxides (Lupersol 575) for faster reactivity and cost effectiveness.
- Peroxide blends (Lupersol P-31)
   for more efficient mold curing. Luperco AFR-400 - fire resistant
- BPO suspension. New initiators for microwave oven cookware - Lupersol 553\*,

MORE FOR PVC

New t-amyl peroxyesters (Lupersol 554 and 588\*) for

Peroxydicarbonates with low

New neoheptanoate peresters, Lupersol 288\* - for faster

reactivity and less reactor

faster reactivity.

chloride levels.

- High quality dicumyi peroxides Luperox® 500T, 500R, 500-40C/KE
- Peroxyketal initiators -Luperco® 230-XL, 233-XL, 231-XL - for excellent reactivity and better scorch resistance.
- A new crosslinking literature

# MORE FOR POLYSTYRENE

- New t-amyl peroxides (Lupersol 533, 553\*) for narrower molecular weight distribution.
- Initiators for rapid polystyrene-Lupersol 256, DS-606, 220,
- Perketals (Lupersol 231, 233) for use in continuous bulk polystyrene.

# MORE FOR ACRYLICS

- New t-amyl peroxides (Lupersol 533, 553\*) for narrower molecular weight distribution and less branching.
- Initiators for high solids acryllc coatings (Lupersol 533).

\*Developmental

Our newest General Catalog will tell you MORE.
Please contact us at LUCIDOL Division Pennwalt Corporation, 1740 Military Road, Buffalo, NY 14240, (716) 877-1740.

When it comes to newer, better ideas in peroxides, you can depend on Lucidol, to give you MORE

> LUCIDOL **DENWALT**

# **News Capsules**

#### NL Shifts Management

NL Industries aaid last week that Fred W. Montsnarl, executive vice-president, will become president and chief oparating officer of NL Chamicala, aucceeding John R. Slowik, who is leaving to pursue other loterests, according to NL. The change is effective immediately. NL, effectively under the control of Texas financier Harold C. Simmons, has agreed to seek a buyer for its chemicals business or apin it of loshareholders.

#### Cal. Blotech Signs Accord

California Biotechnology Inc. has signed leliera of Intent to form two joint veniures in veterinary therapeutics and related products with Ft. Dodge Laboratories Inc., a subsidiary of American Home Producis Corporation. The first venture covers development of products to treat various pet diseases and the second will pursue development of a contraceptive vaccine for animals, mainly dogs end cats.

#### Ruckelshaus Signs On

Willism D. Ruckelshaus, former administrator of the Environmental Protecion Agency under presidents Nixon and Reagan, bas agreed to be the advisor for environmental health issues to the Na-ilonal Safety Council. Mr. Ruckelshaus will serve sa a consultent and later will chair the advisory group for an environ-mental safety end health institute when it is established.

#### **Biogen Venture Set**

Organic Plus Company and Natural Systems Company bave signed a letter of intent to form a joint venture to produce end market hiogen in New Jersey. Biogen is an ingredient used in clinics to prevent baldness and stimulete new hair growth. The new venture, Organic Pius, will consiructa I-million-gallon-per-yenr plant in Yew Jersey and will begin production in the second quarter of next year.

### Cyanamid & Iowa Agree

American Cysnamld Company and lowa Limesione Company havo completed their agreement for Iown Limesione to purchase Cynnamid's cnicium carbonata deposiis, mining and ore proc-essiog equipment at Alden, Iown, and Weeping Waier, Nab. Terms of the transection were not disclosed.

# **New Software System**

Aqua-Tech Inc., Port Washington, Wisc., has iniroduced an amergancy reiponse computer software system, celled "Chemdata" designed to provide feat and accurate information for response to chamical spills and emargencias. The aystem contains information on over 18,000 chemicals and 44,000 synonyms.

# <sup>(Prowl)</sup> Packaging Touted

American Cyanamid Company claims the yellow plastic packaging of its Prowl" herbicide gives the product an advantage over the competition. The bright yellow, five-gallon high-density our product from others," the company

# Chevron, ICI in Accord

Chevron Chamical Company and ICI Americas Inc. bave reached a tentative greement to terminate Chevron's rights distributa paraquate in the US. Chevron's Oriho Agricultural Chemicals Division has marketed the non-salectiva terbicida here since 1966 aa ICI'a lleosee. ICI Amaricas has also aold paraquate in the US for the last two years under the trade nama "Gramoxona." ICI discovered the product over 25 years ago;



DU PONT IN TEXAS: The company is one of a number expected to benefit most in current elimete.

# **TFI Rebuts Use Of Coal Rates** To Figure Prices

Interstate Commerce Commission guidelines to determine rali rate reasonableness for coal shipments should not be applied to non-coal commodities, ac-

cording to The Fertilizer Institute.

The Institute argued that the use of a stand-alone cost standard — the fundamental concept for coal rata guidelines — is lnappropriate for fertilizer movements.

'A competitive access remedy - requiring rall carriers to publish through-routes or joint rates, reciprocal switching charges or terminol trackage rights - is the best meana of resolving the captive shipper dilemma," sold institute president Gary D. Myers in comments submitted to the ICC.

As defined by the commission, the alandulone atandard finda a rate to be reasonabla if It fails below a hypothetical rate required to provide comparabla service to captive ship-

The Institute's commants maintained that such a methodology is inappropriate for fertillzar movaments

# ICI NH<sub>2</sub> Process To Be Used In PRC Facility

ICI's AMV ammonia process is to be used in a new 1,000-metric-tons-a-day ammonia plant to be built in the People's Republic of China. The project, for the Zhong Yuan Fertilizer Plant et Puyang, Henan Province, attracted bids from the world's major ammonia process compa-

The process, according to the company, is regarded as one of the most energy efficient, coats less to build and is extremaly reliable in

Canadian Industries Ltd. built the first plant to use ICI's AMV technology. This I,120-ton-a-day unit was commissioned in

August last year.

The contract to build the new Chinese plant has been won by Unde of Dortmund, Germany, a licensee of the AMV process, which also engineered the C-I-L plant.

The AMV process was developed by ICI Agricultural Division at Billingham, Cleveland. Bob Coxon, Division Licensing Manager, commented, "We are delighted with the news."

# Chemical Income Seen Rising 22 Pct. in 1987

The US chemical industry should increase its operating earnings by 22 percent in 1987 following a projected gain of 35 percent in 1986, eccording to a etudy of the industry by analysts at Drexel Burnham Lembert Incorporated. Companies likely to gein most by the etrong eernings climete ere sald to be Imperial Chemicai Industries, Ltd., Dow Chemicel Company, Alr Products & Chemicais, Inc., Rohm end Heae Company end Morton Tolokol Corporation.

At Sbesrson Lehman Brotbers, a sub-aidlary of American Express Company, anaiyat Theodore S. Semegran, sees an improving chemical trade balance as the Industry'a insurance against alackening of economic

The optimism is based on continued strength in housing, automobiles and other major consumer markets, but on this subject, Henry Kaufman, chief economist at Salomon Brothers, Inc., is warning that the US debt problem — mortgage dabt, corporate debt, private debt and national debt — is getting

US financial system will need structural

disruption of major proportions resulting from the deht problem is to be staved off."

Among other recommendations, Mr. Kaufman aaid that tax policy should favor equity over debt; regulatory bodles should, in some cases, rate the credit of financial institutions; centralized monitoring and regulation of the financial ayatem should ha established; reporting of contingent liabilities should he reoulred and financial institutions should have to report their asseta coat or market value, whichever is lower.

Mr. Semegran, of Shearson Lehman, aald that for the next slx months, US chemical compaoies' earnings will remain strong due to the large energy price drops, favorable foreign currancy translation effects and tha restructurings that were undertaken in 1985. As the effects of these factors ease in 1987, improved trade "will be the likely savlor," Mr. Semegran sald.

The tendency this year is for exports to increasa, Mr. Semegran comments, and some of the hig gainers will be aminea, bisphanol-A, terephthallc acid, isopropanol, polypropylene glycoi, butyl acrylate and related compounds.

In a talk before a symposium sponsored by the Federal Reserve Bank of Kansas City in Jackson, Wyo., Mr. Kaufman warned tbatthe Continuad on Paga 17

# Acids to Aid Butchers

US Deportment of Agriculture is seeking comments on an interim final rule that will permit the controlled use of substances that maintain the color of fresh port cuts for the duration of their normal, safa shelf-life. Tha eubstances are ascorble acld, erythorble ecld, citric aold, eodium ascorbate and sodium citrate. The interim final rule becomes effective Sept.

"Fresh pork cuts lose their color long before they become unsafe to eat, and aome consumers find the off-color less desirable," said Donald L. Houston, administrator of USDA's Food Safety & Inapection Service. "We have raviawed deta which indicate that certain ecidic subatances can safely be used to exlend the process is operating correctly.

addition, the prescribed conditions underwhich the subtances are permitted will ensure they do not mask signs of food spoilage.' According to Mr. Houston, modern

processing technology makes it possible

for processors to very precisely control lhair operations, including the stagea where subslances are added to meat.

Only processora operating under a USDA-approved partial quality control program will be allowed to use the substances, he said. Under these programs, plants establish controla at certain processing ateps. USDA Inspectors monitor the plant'a controla and data to ensure the

# **Schering Pursues Cases Against Alleged Imitators**

manufacturers of generic druge Schering Company lest week filed sults against such producers in three states to enjoin them from selling their products with labels that aliegedly simulate the Kenilworth, N.J., company's packaging and graphics.

and graphics.

Schering filed the suits to protect its "Airin" nasal decongestant apray, its "Chior-Trimaton" and "Polaramine" antihistimines and its "Tinactin" athleta foot remedy.

A suit against Life Laboratories, Inc., Sun Valley, Calif., involves the alleged simulation of the packaging colors and graphics of

tion of the packaging colors and graphics of "Afrin" and "Tinactin." This suit was filed in District Court for the Northern District of California in San Francisco. A ault against MY-K Laboratorlea of

Skokie, Ill., formerly known as Bay Laboratories inc., also involves the label colors and graphics of "Afrin." In addition this suit harges MY-K with infringing Schering's trademark"Polaramina" by the use of the trademark "Polaramine" for a directly com-petitive product. The suite against MY-K was filed in the US District Court of Illinois,

Rockford Division,
Scharing's Ihird suit, egainst Cartifiad
Pharmaceutical Laboratories of Largo, Fla., and Jewelt Drug Company of Aberdeen, S.D., involves the simulation of the packaging colors and graphics of "Chlor-Trimeton." It was

In its continuing campaign against filed in the US District Court for the Middle District of Florida, in Tampa.

Schering aays it is seeking permanent injunctions prohibiting the defendents from continuing to supply their products with packaging that simulates Schering's, from simulating or infringing its trademarks and from "otherwise unfairly competing."

The company is also seeking trable damages, the recovary of the defendants' profits, and awards of attorneys' and legel expenses.

.The filing of these suits follows recent consent judgimenta that Schering obtained against various defendents for label simuletion, trademark infringement, falsa and mislaeding advertising and other acts, many of them involving the company's diet ald "Fiber

Among the defendants that have signed consant decrees are Thompson Medican Company (Naw York City), Vita-Fresh Vitacompany (Naw York City; Vita-Fresh Vita-min Company (Garden Grova, Calif.): Fiske Industries Inc. (New City, N.Y.); Great Life Laboratories (Westford, N.J.); NMC Lahora-tories (Glendaler, N.Y.); Perrigo Company (Allegan, Mich.), Newtron Pharmaceuticals Inc. (Bohemia, N.Y.); Pennex Products Compnny (Verona, Pa.): Gentex Corporation (Cincinnati, Ohio) and Simpak Corporation

A spokeswoman saya tha company is extremely active in defanding its products against these sorts of infringements.

# Who's making news in fatty acids and glycerine?

Why, Procter & Gamble is! Take our new, multimilliondollar Quincy plant, near Boston. This fractionated fatty-acid facility will begin producing a multipleproduct line this year.

We also continue to take a leadership role in supplying high-quality glycerine. Today we have refining facilities at five locations in North America. to meet your needs for a variety of end uses.

But fatty acids and glycerine are only two examples of P&G's heightened fatty-chemicals activity. At our state-of-the-art plant in Sacramento, Calif., alcohol-processing technology has taken a giant step forward, and production capacity has doubled.

As a result, we are able to supply ever-increasing quantities of even higher-quality ethoxylates. methyl esters and straight-chain fatty alcohols. What's more, Sacramento's advanced technology

has led to the production here of high-purity, heavycut alcohols.

In fact—with facilities from Hamilton, Ont. to Dallas, Tex., and from Baltimore, Md. to Long Beach, Calif.—our capacity to produce a full line of naturally derived chemicals may well be North America's largest.

The chemicals user who calls us first, seldom needs to make a second call!

More proof that P&G has the plants, the people and the commitment to be your long-term source of a full line of naturally derived chemicals, including glycerine, fatty acids, methyl esters and fatty alcohols.

Procter & Gamble Industrial Chemicals Division, Box 599, Cincinnati, OH 45201. In Ohio, call collect: (513) 983-5607. Elsewhere, call toll-free: 800-543-1580.

# **P&G Industrial Chemicals**

Helping you boost product performance.



# OILS, FATS & WAXES

# P&G's Canola Venture Roils The Vegetable Oil Industry

Procter & Gamble's announcement that it is using canola oil in its "Puritan" vegetable oil is focusing industry attention on the low erucic acid variety of

"Every major oil processor in the country is looking at it," says one industry source. The processors have "all got canola in their research facilities," he says.

One of the main reasons for the interest is the oil's low saturated fat content. "Puritan" oll now 100 percent canola, contains 6 percent asignated fat, according to a Procter & Gambia spokesman Improved nutritional value was the motivation for the switch from the previous blend of 80 percent sunflowerseed oil and 20 percent soybean oil, the spokesman adds

Another attractive feature of canola, which was approved for edible use in the US In Jacuary of 1985, is that crushing yields 60 percent oil and 40 percent meal, a higher oll

leld than that of soybeans. Canols's use as a fatty acld feedstock has also garnered it attention from people in the chemical business. While looking for a highvield feedstock last year, one industry source began buying canola oil. He calls the 90 perceol stearic feedstock "very desirable" compared to anya in terms of "economics and quality," he says.

#### HIGH OLEIC SOURCE

Canola is also a sought-after source of high oleic material, according to a trader. His sales of canola to non-food customers are up 100 percent over last year's sales, he claims. Caoadiao government subsidies on transportation of the oil to the East and West

coasts of the US help make it a competitive alternative to sovbeao oil. Canola oil, generally priced in the 16 cents to 20 cents range, is a growing threat," according to a soybcan oll processor. In his view, the extent of canola's use in the US will depend largely on the success of a few products made here with the oll including "Puritan."

Another trader feels that use of canola in the US will not become widespread for "a couple of years," and that the 8 percent duty oo the imported oil will keep some customers

A major US oilseed processor is currently ooking into the possibility of crushing ennote for the domestic market as carly os next July. The "major impetus" for this "experimeol" is, says a sourca from the processing company, the use of canola oil by Procter &

At this point, he says, his company and the

# FRIDAY SPOT PRICES

ı	MARKET CLOSE AUGUST 29	, 1986
	CRUDE VEGETABLE OILS Coconut oil, NY ib. Coconut oil, Pacific ib. Corn oil, Midwest ib. Cottonseed oil, Velley ib. Linseed oil, Minnespolie ib. Paim oil, NY ib. Parkt oil, Southseet (restricted) ib. 80ybean oil, Oecatur	.12¼ NA .16½ .13½ .29
ı	REFD. VEGETARI E ON C	

	Cocenit off, tw., NY	.241/2
i	Peanut of, jumbo tenka, NY ib. Soybean saled oil, NY ib.	.37nom
4	Dil tan	

# 

# FATS & GREASES

Origae, white, choice, tanks, divd., NY Ib. Land, loose, bulk tanks, divd., first tanks Ib.	.91/2 .
THOU MANEY WITCH CHICAGO III	.14
Triow, hedible, bich., tanks, divd., NY Ib.	.874

rest of the industry are walting to see how the to the claims made for its health benefits, before pressing ahead with plans for crushing. Canola's similarity to linseed makea flax crushing equipment, with slight modifica-tions, ideal for crushing canola, the acurce

Canola is currently grown in the Pacific Northwest and at a few other locations in the US, but not enough to supply the US market's needs. The winter canola that they grow, harvested in the Spring and Summer months, is mostly sold to Canada for crushing.

"Up to now," says Marlene Peters, presi dent of Mid-American Oil Seeds Association "there hasn't been adequate US demand to justify planting here." She cites the hardships facing US farmera as a deterrent to gambling on growing a new crop without a well-estabished market to sell to. Some growers be

#### PRICES TRENDLINES

WEEK ENDING AUGUST 29, 1986

#### CHANGES/UP

Boybean oil, Oecatur \$30 per ton

#### CHANGES/DOWN

Cottengeed, 41% bulk, Memphis, \$7.50 per tor cottonseed ell, Velley, 1c. per lb. Lard, loose, bulk lanks, Chicago dis Palm Oll. 34c. per lb. Peenul, 50% bulk, SE, \$10 per lon Pennut oil, Southeret (restricted), 1c. per lb

Soybean, 44% bulk, Oecelur, \$7.50 per ion

#### OILS, FATS INDEX

The Oils, Feta & Waxaa Index reflecta the pricas of 11 representativa materiala in this sactor end the quantity of eech

JI DOWCAU IN 1 DO	,
Aug. 22, 1986	83.06
	79.60
	84.54
	83.98
.ug. 20, .uu	

Chemical Prices Start on Page 34

licvo that If Amarican farmors wore to ba educated about canola, they would find it ao attractiva Winter rotation crop.
Tha sunflowerseed oil industry is keeping a

wotchful eye on developments in US raising of canola. The sun oil producers were "taken by surprise" by Procter & Gamble'a decision to use cancla in "Puritan," which had previously been a blend dominated by sunflowerseed oll, according to a sun oil processor.

Although there is concero to the industry over cacola's high olelc contect, which is a prima selling point of suo oil, producers are confident that the quality of their material is at least as great as that of caools, the source

Exports of canola from Canada, tha malo US source of tha oil, almost doubled in tha Jao.-May pertod of 1988 as compared to the same period in 1985.

The total caoola exports from Canada to US for 1985 were 245,228 metric tons (MT), representing 7.8 percent of Canada's total canola exports for that year. The US imported 8,138 MT of canola oil from Canada in the Jen. May 1968 period. Other major importers of canola include India and Japan.

Caoola, Canada's number ona source of vegatable oil, is also considered a desirabla source of meal, dua to its low levels of glucostnolata.

#### VEGETABLE OILS

COCONUT OIL:—Traders last week saw a flurry of bigh-level trading in the coconut oil market. Traders were at a loss to fully explain the firming in the market beyond say





## Menthol Crystals

- Peppermint Oil
- Spearmint Oil
- Vanillin
- Musk Ambrette
- Synthetic
- Camphor Tablets.

#### **Business Line:**

 ■ Essential Oils Isolates Aromatic Chemicals Camphor Powder & Tablets ● Fragrances & Flavours Edible Pigments, etc.

Produce & Animal Afroducts Import & Export Corporation
Shanghat Native Produce Branch

18, Olan Chi Figure, Shanghel, China Telephine: 215680 Talegrams: 0660 CHINAPROCO Teleph; 33080 CNPCS



#### MPORT · EXPORT

Marine Oils • Fatty Chemicals Industrial Raw Malerials





Specialty

# Acid Chlorides

**NEWARK, NJ 07114** PO BOX 2500 TELEPHONE 201-621-4100 TELEX 844131 OUTSIDE NJ CALL TOLL FREE 1-800-225-4226

# **High Purity PhosphoLipid**



DMF Numbare essigned eHigh purity: ≥ 99%, TLC 1 spot

• Frae irom haavy matai, lyso-form and 1,3-diacyl form ●Optical activity: L-α-form

\*Packing units ●10g, 100g, 1kg

Netural PC/from agg yolk •Synthatic PC/R⇔Palmitoyi, Stearoyi, ato

Kippon Fine Chemical Co..LTD. Telex: J65413 CAMPHOR, JAPAN

#### INABATA AMERICA CORPORATION

Phone: Naw York (212)586-7764 Sen Francisco (415)398-1669

# CUSTOM MANUFACTURING

LIQUID AND SOLID ORGANIC SPECIALTIES

Competent Scientists - Reliable Producers



COLUMBIA SOUTH CAROLINA 29202 P.O. BOX 641 (803) 799-6863

CHEMICAL MARKETING REPORTER

# **Hydriodic Acid**

# CHEMICAL CORPORATION

PO BOX 2500 NEWARK, NJ 07114 TELEPHONE 201-621-4100 TELEX 844131 OUTSIDE NJ CALL TOLL FREE 1-800-225-4226

about and Arista wants to

help you make big profits.

# OILS, FATS & WAXES

ing that it was just one of the occasional "bleeps" that they have sean in the market over the past few months. Covering of short positions probably was involved with the rise, sources say.

After the three day period of heavy activity was over, the market returned to its lower levels, with most of the activity in Dec.-Jan. positions. Buying interest "evaporated" af-ter the brief rise, says a source, who points out that the apot market saw very little activ-

OLIVE OIL — A measure awalting Congressional approval would lower the tariff on olive oil coming into the US, according to US government trade source. The measure would reduce the duty on containers greater than 40 pounds from 2.6c. per pound to 1.56c. per pound. The duty on olive oil in cootainer amalier than 40 pounds would be lowered

ity during the week. Seeing nothing to such the market at higher levels, traders remaind unconvinced that the market has yet hit be.

from 3.8c. per pound to 2.28c. per pound. The proposed move represents so attend to accommodate the European Community with whom the US has been having iras difficulties lovolving US citrus and European Community pasta, according to Foreign

The measure is expected to win approval when Congress re-convenes after lis curred

The reduction would lower the high spot prices that traders are seeing now, some say. The current price is being called \$6 per gallon for Spanish Rivlera and Virgin grade,

and \$5.35 per galion for Italian B material.

The market is very quiet right oow, with atiff prices not expected to change until after August, a primary holiday time in Spain.

PEANUT OIL - Recent raios in the Southeast improved the outlook for the corrent peanut crop. Traders are now thinky of the crop reduction as considerably less serious than they had been before. They are now comfortable with the USDA's estimates of a 15 percent reduction from last year's crop, rather than figures oearly twice that they had been fearing, aources say.

Perhaps partly because of this, trading on peanut oil has been very slow. Prices have also softened, and are apparently continuing to do so, as buyers are staying away from in material at the asking levels.

The lack of any significant export track adequate supplies, and increased buyer confidence in availability are all beiping to soften the market. "Prices won't soar like people thought they would," asys a source, who notes that although the rains may have come too late for some of the crop, traden are remaining optimistic about the nuts the

industrial products and applications. When you call Arists, you will have Arista's worldwide network unit war Oil - W lout Oil of sources will get you what Vegetable Ofis × Vitamin Oils × Industrial Ofis • Methyl Esters you want what you want it even hard to find products at preferred prices. And if you produce offs, we will not

.TO MAKE as your agent, or even buy outright. BIG PROFITS Profit is what America is all

> Arista Industries, Inc. 1082 Post Road Darisn, CT 08680 .

(800) 837-8243 (MERMAID) TELEX: 986495 . Address: HACKERN, Darien, Connecticut

# OILS, FATS & WAXES

will begin coming to market in two to three

SOYBEAN OIL — Traders were pleased to see a pickup in foreigo buying interest, as importers abroad continue trying to use up ir Commodities Credit Corporation credlis before the end of September.

Bangladesh has been tendering on 8,000 tons of crude de-gummed soybean oil in barrels, industry acurces say. Originally. Bangladesh's interest in any oli "came on the heels" of a PL 480 asie to Haitl, a source sava. The US government put Bangladesh on hold entil now to prevent the soybean oil market from geiting too tight, according to ao indus-

The Dominican Republican is also said to be coming in for a purchase in the near fu-

At home, soy oil is seeing very little activliv, as the crush continues to be meal-driven. A remark by Agriculture Secretary Lyng regarding off-grada soybeans being held by the government anottened the market as crushers expected tha material to go to the market sometime soon, a source says.

#### FATS & GREASES

TALLOW - The tallow market is experiencing a pickup in orders from foreign buyers anxious to use up their Commodities Credit Corporation credits before the Seplember 30 desdlina, sources say.

West Coast traders have been finding an increase lo Korean buying, and other parts of the US are stepping up shipments to Europe in response to their heightened demand, occording to industry sources.

It had been hoped that Egypt would order a large quantity of US material last week, but

the Egyptians have delayed their decision until at least this week, a source soys. They ara said to be planning to purchase 25,000 tons of material, but it is not certain if they

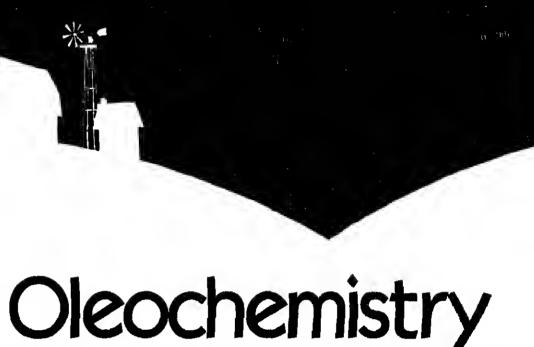
will decide to buy tallow or coconut oit.

Domestically, tallow nvallability is tight, parily because the chemical business has been buying steadily lately, and is expected to contloue doing so, sources say.

To response to this and to the improvement in export activity, sellers raised their prices last week. They are said to be having a hard time finding customera to buy at the higher lavels, though, and probably will not be able to mainiain the bigber prices in the face of a weak vegelable oils market.

# CHEMICAL MARKETING REPORTER

Quickest Way to Keep Current on Chemical Costs



From a constantly replenished source For any application you can imagine Oleochemicals...long chain derivatives of fatty origins.

Sherex Chemical Company makes fatty amines, alcohols and acids; their derivatives: quaternaries, diamines, esters; and their ethoxylates. Oleochemicals of outstanding punity and consistency that you use in applications from cosmetics to crayons, from bactericides to buffing agents, from paper to plasticizers.

We can also custom tailor a performance chemical that really performs in your application, with your process, to your specifications.

Oleochemicals... from naturally occurring fats and oilsfrom tallow, rapeseed oil, soybean oil, coconut oil and palm oil. At Sherex, we depend on these renewable, constantly replenished, home-grown sources to assure us of a steady supply of feedstocks. And you of a steady supply of high-quality oleochemicals.

So come to Sherex for oleochemicals—whether it's an existing product or a custom-tailored performance chemical. To find out more write or call Sherex Chemical Co., P.O. Box 646, Dublin, Ohio 43017, 614/764-6500.

Our technology meets your product challenges.

**SHEREX** 

# INDRAPOL

# A NEW DOMESTIC POLYETHYLENE WAX

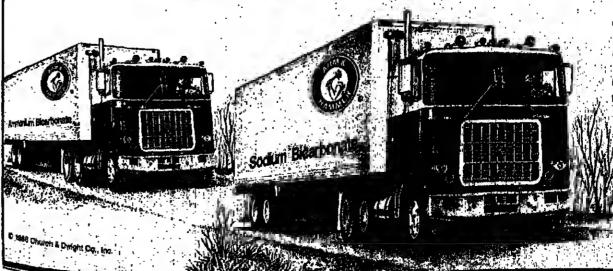
Available Prills in Cartons or Bags Specs, Samples and Price on Request



# INDUSTRIAL RAW MATERIALS CORP.

575 Madison Ave., New York, N.Y. 10022 Telephone: 212-688-8080 Telex: Western Union 12-7004

Sodium Bicarbonate U.S.P.



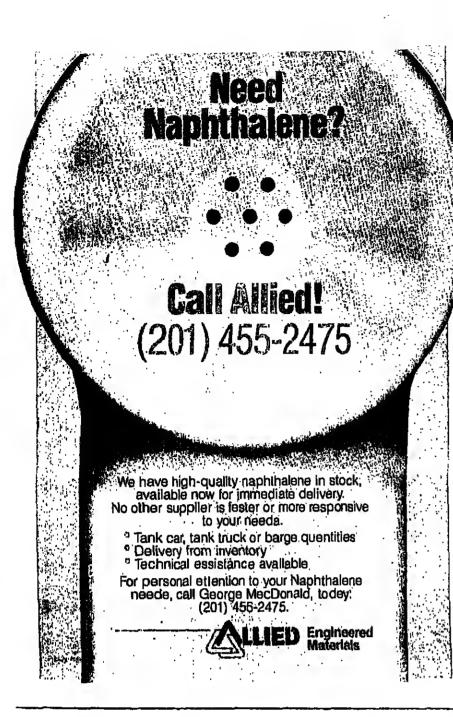
Now available in mixed shipment with Ammonium Bicarbonate, Sodium Carbonate Monohydrate, and Con Sal\* (Sodium Carbonate Hydrated).

Granulations and purity to satisfy every food, pharmaceutical, reagent and industrial need.

ry-to-handle 50 lb. of 100 lb. baga By far, the most comprehenative technical aupport program

excallance that's as strong today as li was 140 years ago. Contac

n NJ.--(609) 683-5900



# **UNION CARBIDE CHEMICALS**

The following high-purity chemicals are available from Union Carbide Agricultural Products Company, Inc.

#### **Tetrahydronaphthalene**

Solvent Heat transfer fluid Dye carrier Intermediate

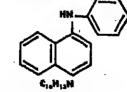
#### i-Naphthol

Intermediate for: Colors Antioxidants **Pharmaceuticals** Agricultural chemicals



# N-Phenyl-alpha-Naphthylamine

Antioxidants for Rubber and Lubricants Intermediate for Colors and Antinxidants



Please contact your Union Carbide sales representative for more details: Fanwood Chemical Inc., P.O. Box 159, Fanwood, NJ 07023 201-322-8440 Telex: 844208

Union Carbide Agricultural Products Compony, Inc. P.O. Box 12014, T.W. Alexarder Drive, Research Triangle Park, N.C. 27709 Copyright Offician Carbide Agricultural Products Company, Inc.

# **AROMATIC ORGANICS**

# Maleic Anhydride Market Called Fairly Snug by Analysts

Following an "unusual" first half of capacity by 1990, expansion plans are in eyl the year for maleic anhydride, production dence. Denka says it will be on-siresm with ers say that healthy domeatic demand is on additional 20 million pounds per year on keeping the market fairly snug.

Ashland Chemical Company experienced difficulties with a reactor early in the year that resulted in some loss of production from lts 60-million-pound-per-year facility in Neal, W.Va. "We ran the other reactor heavlly," and drew down inventories, says a company spokesman, in order to meet delivery schedules.

USS Chemicals, a divison of U.S. Diversified Group, lost output from its 33-million-pound-par-year facility in Neville Island, Pa. for approximately ten weeks following a fire April 11. The company worked off inventory and "made arrangements to supply customars," according to a company spokes-

He says the outage "was very un-tlmely...(as it) came at the helght of the mar-ket's demand." This reflected the seasonal upturo in the sgricultural chemicals sector; demand from the other major end markets la sald to be considerably less seasonal.

With the production problems in the industry during the first half of the year, says a producer, "inventorles hegan to dwindle a little hit. Producers are still running full out to replenish inventories," hut this is no easy task givan healthy demand and seasonal turnarounds such as that taken by Monsanto Company's 170-million-pound-per-yer Pen-sacola, Fla. facility for the month of August and Denka Chemical Corporation's 50-million-pound-per-year plant in Houston during July.

#### MALEIC SUPPLY SNUG

"Nobody bas ruo out of malelc, but It has bean snug," says a producer. Demand for polyester realns, which accounts for about half the market, was approximately 2 per-cent stronger during tha first half of the year compared with the same period of 1985, ac-cording to Society of Plastics Industry. This rate would lead to a demaod growth of about million pounds annually.

Producera agree that the polyester resin husloess has been reasonably healthy and that the amaller, more mature end markets
— lube oil additives, fumaric acid, and agricultural chemicals — have been holding steady. Producers are polyester realn demsnd continuing to grow at a GNP-atyle pace, or alightly higher, for the forseeabla

However, this growth has been more than offset this year by a fallback to export lavels. Last year, when Monsanto'a plant in Wales U.K. underweot a catalyst change, the company's Pansacola, Fla., facility boosted its ments to Europe. With the Wales plant hack this year, the US export level is expected to be only about half last year'a 27 million pounds.

Producers say they have observed no real effects of the US dollar's weakening on export interest, and expect the export level to he flat for the next couple years. Main markets are aald to he Csnada, Latin America, Southeaat Asia, and Australia.

Monsanto's curtailment of exports, USS's utage, and Ashiand's operational difficulty are seen as cootributors to an 8 million pound dacline lo production, from 181 millioo pounds during the first half of 1985 to f73 million pounds during the first half of 1988, according to International Trade Commis-

Producers say that list pricing la at 53 cents per pound. Market prices are said to have been bolding steady in recent months, with discouots of batween 5 and 10 percent off list. Producera acknowledge that feedstock butaoa costs have been weak, but obsarve that from the lata 1970's until the mid-1980's, the maleic anhydrids business was not a profitable endaavor.
With demand projected to axceed current

ing the first quarter of t987, and Monsank piana to add 40 million pounds per year by early 1988. USS Chemicals says it is "looke at ways to optimize our husiness," sed As land says its plunt is capable of being en

#### PRICE HIGHLIGHTS

AROMATICS IN AUGUST

ALIGHMANIOGIA	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	CONTRACT		
	(US S)	(US\$)	
Anilineib.	.33-351/2	.24.28	
Benzene gel.	.7075	.89-27	
Cumenatb.	.13141314	.134.1	
Cyclohexene gel.		NA	
Phenol		1912	
Styrenelb.	.18	.17-170	
Toluenegel.		.60-17	
Xylenes, mixed gat.		.75-33	

panded and the situation is under evaluation Producers note that Standard Oli Company has shown an interest in using make anhydride for 1,4-hutanediol production this could hear fruit in two to three years.

BTX - Exxon Chemical Americas and Shell Chemical reportedly are raising berzene contract pricing 5c. per gallon to 80c per gallon, effective September 1. While most other suppliers are helieved to be following the upward adjustment, Standard Off is raising its contract pricing by 10c. pr

gallon, to 85c. per gallon.

A Standard Oll spokesman says that, be cause the company "does not sgree with a twice-a-month adjustment" policy, it has "taken tha bull by the horns" and made it posting based on an assessment of the strength in the benzene markelplace.

A contributing factor in the decision, the Standard Oil spokesman says, is the company'a hydrodealkylation (HDA) capacity si its Lima, Ohio and Alliance, La., facilities si the present time, industry sources say, so marchant HDA units are in operation

Standard Oll'a HDA potantial is being evaluated, the company spokeaman says, while observing that "HDA oconomics are still ast unlited to a conomics are still ast unlited to a conomics are still ast unlited to a conomic and a conomic are still ast unlited to a conomic and a conomic are still ast unlited to a conomic and a conomic are still ast unlited to a conomic and a conomic are still ast unlited to a conomic and a validated at 80c. per gallon." A trader com menta that 85c. per gallon "la the kind d' number you need for HDA."

Spot benzana la sald to be ln a firm 750 to 77c. par gallon raoge, while spot toluent a quoted batwaan 88c. and 87c. per gallot Cruda oll and gasolioa prices are strong and these are providing much of the upward pressure on healer are provided provided by the strong strong and the strong strong are strong and the strong stro aura oo basic aromatics pricing, industri aourcea aay. In addition, it is observed unit octane enhancer damand in Europe has been atrong anough to draw toluace and MTBS

shipments from tha US.

Spot xylana la quoted at 72c. per gallonand tha market la described as lhis. Paraxylene contract pricing is asld to be bolding ateady at 19.5c, par pound. Orthoxilene contract pricing bas firmed up during lene contract pricing bas firmed up during the same and the the past coupla months to between 18c and 131/2c. per pound.

CUMENE — Contract pricing, quotes tween 13 V.c. and 13 V.c. per pound to August, tween 13 V.c. per galia will likely be firming up to the 14c. per gallos level in September in response to higher ben-

zena prices, producers aay. 'Curnene prices hava been fairly low. (and) we have beao seeing fairly good phenol demand," one producer commants, another producer says that, in addition to domesting the dams of inquiries have been racelyed to cently from Eastern Europe. According to Bureau of Censua, the amount of cument of contents. ported in June was the largest since Januar

CYCLOHEXANE — In response to the per-gallon benzaoa contraot increase cyde hexaoe pricing moved up 4.1225c per gallon

## **AROMATICS**

io accordance with the Industrywide pricing formula. Prices range from Phillips Chemical Company's 93.8450c.-per-gallon price to Texaco Chemical Company's 92.6450c.-per-

existrally applied drugs and cosmetics. A provisional listing will be in effect until Octo-

PHTHALIC ANHYDRIDE - BASF Corflaking and bagging system adjacent to the company's 175-million-pound-per-year molten phthalic anhydride plant in Kearny,

BASF has been aupplying flaked material to the Esst Cosst market from its Cornwall, Canada iscility. USS Chemicals, a division of U.S. Diversified Group, supplies the market from its Neville Island, Pa. facility, which flakes material brought in from a 210-mil-lion-pound unit in Pasadena, Tex.

The Keerny startup "certainly will increase the competition," observes a USS Chamicals spokesman, who sees the facility as effectively rapiacing Monsanto Company's 80-million-pound nott in Bridgeport, N.J., which was closed in January.

A BASF spokesman says that "we had a very minor position" in the East Coast mar-ket while bringing in material from Canada, and "we sre now looking at a much more extensive position." The company says that the shillty to maintain inventory locally will Improve the logistics of its operation.

In addition to USS Chemical's presence. BASF will need to contend with imported product. "The Esst Coast has been plagued by chesp imports," says the USS Chemical spokesman, which have come from such countries as Brazil and Venezucin.

Imports during 1985 totalled approximately 12 million pounds, and took 14 per-cent of the US fiskemarket. Through the first

six months of 1986, imports totaled approxi-mately 9 million pounds for an estimated 21 percent share of the US flake market.

Nonetheless, it is observed that the volume of imports has tailed off recently, attributed to strong demand from the Far East and the Texaco Chemical Company's 92.6450c.-pergallon price.

DYES — Food & Drug Administration
says it intends this Fall to permanently list
Yellow 6, Red 8, and Red 9 as safe for use in
externally applied drugs and committee. devoluation of the US dollar. According to

STYRENE - Amoco Chemicals says that lt is removing a 1c. per pound temporary voluntary allowance from its list pricing, effective September 1. The new price is 21c. porsition says it is presently starting up its per pound, f.o.h. Texas City, Tex., with higher prices from other shipping points. Other producers have raised prices by 2c, to 3c, per

#### Pfizer Sugar Continued from Paga 7

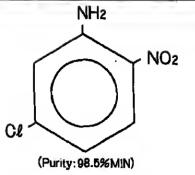
crs "an extraordinarily hot topic." He saya the hurden of proof on Pfizer to prove alitame's safety and efficacy is "enormous." He concludes that the product has "a lot of potentisl," hut it will "take s long, long time" to get through the approval process.

Alits me is hitting the regulatory pipelina at a time when competition in the sugar substitute market is soon to heat up. Aspartame's current hold on the market is very strong (\$750 million in salea, compared to undar \$100 million for saccharin), hut several ohservers say cyclamates may re-enter tha market next year, 17 years after the FDA hanned them

In addition, another sugar substitute that was submitted for FDA approval In 1982 continues to move through the approval process. The sweetener, called acesulfsme k, was developed by Hoechsi AG and is already mar-keted in several Western Europe countries,

Pfizer says alitome's stability will enable t to be used "in a wide variety of foods, including beverages and haked goods." The company says alitame can also he used in ioilctrics and pharmaceuticals.

# A New Source for: 5-CHLORO-2-NITROANILINE



The other organic intermediates from us:

## meta-dichlorobenzene

2, 4-dichloronitrobenzene

1, 3, 5-trichlorobenzene

3, 5-dichloroaniline

3. 5-diaminochlorobenzene

for furthar information, writa or call:

: ISHIHARA SANGYO KAISHA, LTD.

10-30, Fujimi 2-Chome, Chiyoda-ku, Tokyo, Japan, Telex 2324306 ISK J ISHIHARA CORPORATION (U.S.A.)

600 Monigemery Street, San Francisco, CA, 94111, U.S.A Tel (415)421-8207 Telex 23-278010 ICUSA UR

# Jim Walter resources, inc. **Aromatic Sulfonic Acids**

Benzene Sulfonic Acid, 90%/Toluene Sulfonic Acid, 94%/Xylene Sulfonic Acid, 94%

Phenol Sulfonic Acid, 65%/Toluene Sulfonic Acid, High Para/Chlorobenzene Sulfonic Acid

## Custom Water and Methanol Blends Available

Jim Walter Resources also produces aromatic sulfonyl chlorides, and a complete line of rigid urelhane foam chemicals including FOAMSTAB M surfactants, FOAMOLT polyester polyols and FOAMCAT' potassium octoate catalyst.

And ask about Jim Walter Resources' PMF® Fiber filler/reinforcer for thermoplastics and thermosets.

Jim Walter Resources, Inc. Coke, Iron & Chemicals Division P.O. Box 5327 Birmingham, Alabama 35207 Telephone: 205 841-5940

# **Ammonium Bicarbonate**



Now available in mixed shipment with Sodium Bicarbonate, Sodium Carbonate Monohydrate, and Con Sal\* (Sodium Carbonate Hydrated).

Choosa from ...

Treated (flow agant) and untreated grades, both meating

Available in 50 ib. hags or 300 ib. druma.

The only producar in the U.S., we back our Ammonium Bicarhonate by the expariance and knowledge gained over a century of hicarbonate epecialization. Why compromise7 Contact...

Church & Dwight Company, Inc. Marketing Department PO. Box ON5297 Incaton, NJ 08540



NJ.+ (609) 683-6900 THE POWER OF COMMITMENT AT WORK

CHEMICAL MARKETING REPORTER

Mark and The Transport of the Land of the Action of the A

1, 2, 3, Trichlorobenzene

MONOCHLOROBENZENE O ORTHODICHLOROBENZENE (HIGH PURITY AND TECHNICAL GRADES)

1,2,4 TRICHLOROBENZENE

TETRACHLOROBENZENES MURIATIC ACID 20° & 22° Be PARADICHLOROBENZENE

Standard Chlorine Chemical Co., Inc.

35 Bellevitle Turnpike, Kearny, N.J. 07032 🕒 Tele. (201) 997-1700 Telex 138349

## S' Fund Tax Increase

Continued from Page 5 held together since then through Interlm fl-

mancing.
While the chemical industry has supported reauthorization of auperfund, Chemical Man-ufacturers Association, the Industry's trade group in Washington, has urged Congress not to increase feedstock taxes beyond past lev-

els. CMA appears to have succeeded. "I think there's a pretty good understand-Ing in Congress that petrochemical feed-stocks can't take much more," says Tom Gliroy, a CMA spokesman. "Thay just look at Texaa and Louislana where moat of the tax is collected. It's not a healthy aegment of the

A staff membar of tha tax-writing Housa Ways & Means Committee credits CMA with doing a "good sale" on the feedstock tax is-sue, agreeing that feed taxes will probably be frozen at paat levals. Howaver, ahe says there s no consensus on even a broad outline of how

the naw cleanup program abould be funded. CMA aupports some aort of broad-based

tax to pay for waste-site clesnups, but the Issue is "still up in the air," the Wsys & Mean staffer says, as is agreement on some sort of wasta end tax. "That'a just as controversial" the aldc observca. The House bill contained waste end tax, while the senate bill included broad based tax.

The Reagan Administration, meanwhi has threntened to velo any superfued by containing a broad-based tax or a "subsistial" Increase in feedstock and peirolem taxes. This position has raised concern los in the chemical and petroleum industries

The Raagan Administration has coming ently opposed a broad-based superfundian In the Spring of last year, wheo the Sensie Finance Committee was considering various broad-based tax schemes to finance an er panded auperfund, the Tressury Department teatified that it would rather seesn expand superfund program financed by higher feelstock prices than a broad-based tax (CMR 4/29/85, pg. 3).

6,7-Dimethoxyquinazoline-2,4-dione

## ORGANIC INTERMEDIATES FROM SWITZERLAN

- pharmaceuticals
   flavors agrochemicals
   dyestuffs
   fragrances
   photochem

3.4-Dimethoxyaniline 4-Aminoveratrole

3-Nitro-p-toluic acid

4-Aminoacetophenone

- Nitroisophthalic sold

F DOTTKO

# **Chemical Earnings Rising**

shorlage of LDPE in the US rather than declining competitiveness of US producers. A similar trend in polyvinyl chloride could also be the result of limited capacity, he com-

Drexel Burnham Lambert's chemical leam — William R. Young, Katharine L. Plourde, Brian J. Corvese and Charles A. LoCastro - are forecasting real growth of 3.2 percent in the US GNP next year with a slight bulge in the fourth quarter.

The Drexel Burnham projection for chemical industry reveoue growth in the current yesr is 3.4 percent, with physical volume expected to grow shout 5 percent, while selling prices decline by no more than 1.5 percent. Operating earnings are expected to be up 35 percant, versus a previous forecast by he team of 24 percent for the yesr.

#### EXPORT VOLUMES

The Drexel Burnlism Lambert team also la expecilng the industry to increase its export volumes and reduce imports. Other expected stimulants to esrnings include a pick-up in capital spending, a steadying of the oil price somewhere in the mid- to upper teens, a continuing steady tread in fixed costs, along with better supply/demsod balances. An industry operating rate in the vicinity of 85 percent is forecast by the analysts for 1987.

The four snalysts remain optimistic on the outlook for industrial chemicals, "for which capacity reductions have become a way of life in recent years, and for the major thermoplastics, smong which tightness in avsiisbility will be most evident in the polyethylenes and polypropylenes."

Man-made fiber gains, however, are aeen limited by continuing imports of textiles and

META AMINO PHENOL

Sodium-p-toluenesulphinate

ICI Americas Inc.

401-826-2990

22 morreouson

TURTEDISCOLUSATOR

apparel and by the upcoming drop in cotton prices, "which could discourage the use of polyester and other man-made yaro goods."

Prospects for the industrial gas manufac-turers are said to remain healthy despite a recent wave of announcements of proposed

"Demand and operating rates for the Imports in merchant gases continue to trend upward, approaching the 'sold-out' 85 percent operating rate domestically," the analysts

In the absence of a recession, the nat additions to merchant industrial gas capscity likely to come on stream during the next two years "should be absorbed by the expected demand growth for these products in the same time period," the Drexel Burnham Lambert snalyats atated.

The herbicide outlook is sald to be good for those companies which are commercializing value-added products. The prospects are aald to be beat for American Cyanamid Company'a "Scepter," Dow Chemical's "Tandem," Du Pont Company's "Classic,"
"Du Pont's "Assure," Dow's "Verdict," and Imperian Chemical's "Reflex."

Losses in market share are expected for Rohm and Haas' "Blazer," BASF Corporation'a "Basogran," Du Pont's "Lexone," Bayer Chemicai'a "Sencor," and Monsanto Company'a "Laaso."

In the specialty chemicals area, Drexel Burnham Lambert expects the best gains to be registered by Pall Corporation, Avery International, Inc., and the specialty opera-tions of Morton Thlokol. Equities of all three companies are rated "buy" as are those of the Intermediates from Tateyama Kasei Co., Ltd., Japan

6-Amino-2, 4-Dimethoxy Pyrimidine **6-Amino Uracil Dimethyl Malonate Ethyl Cyanoacetate Malonic Acid Methyl Cyanoacetate** 

Please contect exclusive USA distributors:

# biddle sawyer

2 Penn Plaza, New York, NY 10121 • (212) 736-1580

# **Sulfosuccinates** and Alkanolamides.

Now available locally in economical mixed truckloads, from Witco's three manufacturing locations in Chicago, Houston and Perth Amboy, N.J.

> For more details write to: **Organics Division** Wilco Corporation 520 Madison Ave., Dept. 1-7 New York, NY 10022-4236

Or cell one of the Orgenics sales offices listed below.

# Witco

201-826-7777, Southeast & Ohio: 704-527-6783, Midwest: 312-450-7474. Southwest: 713-433-7281, West Coast: 213-277-4511

# Sodium Carbonate Monohydrate and Con Sal® (Sodium Carbonate Hydrated)



- Standard grades of Sodium Carbonate Monohydrate me both National Formulary and Food Chamicala Codex. Strategically located warehouses for fast.
- dapandabla delivery

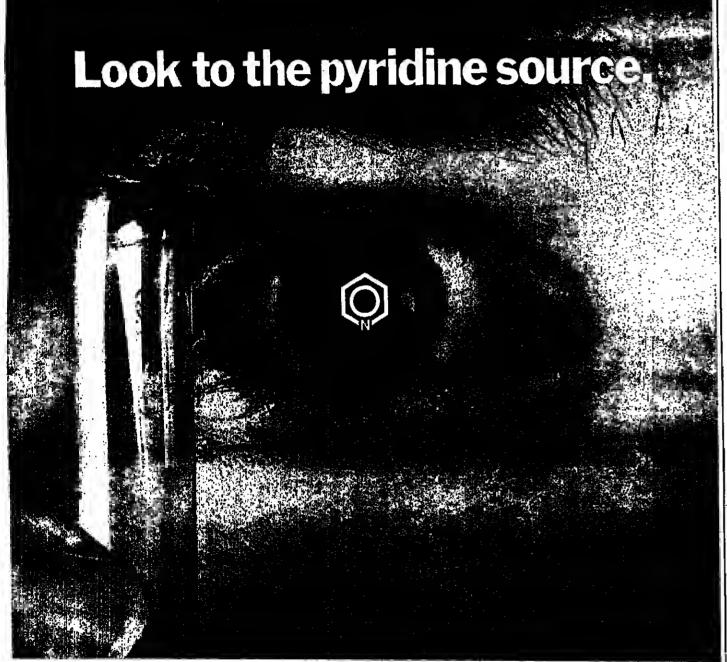
State-of-tha-art computerized production and distribution achaduling



P.O. Box CN5297 Princeton, NJ 08540

(800) 525-3563 In NJ. - (609) 683-5900 THE POWER OF COMMITMENT AT WORK

September, 1, 1986 CHEMICAL MARKETING REPORTER



When you're looking for enlightened solutions to your pyridine needs: Look to the authority who literally wrote the book on pyridines, picolines, piperidines and derivatives.

Look to the innovator, who foresaw a need years ahead of the market, and took steps to become the world's largest producer of synthetic pyridines.

Look to the expert, whose technology can produce 2168 custom synthesized pyridines and derivatives . .. that's 2168 and counting.

Look to Reilly

Reilly. The pyridine source.

Reilly Tar & Chemical Corporation

1510 Market Square Center 151 North Delaware

Indianapolis, Indiana 46204

(317) 248-6411.

Right! ATMOS® 300, ATMUL® 84, ATMOS® 150, ATMUL® 695 and ATMUL® 124 are still available, but now from U.S. Emulsifier. Food grade and/or @ Kosher certified, easy to handle and store, proven effective. Go with names you know. Dependable surfactants from U.S. Emulsifier.

# **WU.S.EMULSIFIER,INC.**

# 为以下,是国际的国际政策的基本的。这一样,并是国际国际政策,对对中国工作。 **Specialty and Custom Ether Award**

SpecialtyChem"

THE ETHER EXPERTS

BY THE GRATEFUL AND SATISFIED ETHER BUYERS OF THE UNITED STATES

ETHYLENE QLYCOL DIETHERS

GLYME (1, 2-Dimathoxyathana) DIGLYME Bis (2-Mathoxyathyi) athe ETHYL DIGLYME BIS (2-ethoxyethyl) ether BUTYL DIGLYME BIS (2-Buloxyethyl) TRIGLYME Dimeth TETRAGLYME Bis

HYOROQUINONE AND OTHER ETHERS

Propylena glycol dimethyl ether Dipropylena glycol dimethyl ether ETHYL GLYME (1, 2-Diethoxyetha ETHYL TETRAGLYME

OTHER FINE CHEMICALS FROM SPC PHN (1-Hydroxy-2-phenyl naphthoate) OEPN (o-Ethyl phenol)

We offer a variety of other specialty glycol diethers. Also sulfur dioxide in tankcar and truckload quantities. Write or call for complete information including technical and applications brochures, samples or problem-solving consultation. We wrote all the books on these others!

SpecialtyChem Products Corporation Member ChemDesign Group, Two Startion SI. Matmette, WI 54143; (715) 735-9033

Sales and Service Offices: Cherry HIL, NJ (609) 662-9030 Houston, TX (713) 939-9694 Oak Brook, IL (312) 654-6708.

**ALIPHATIC ORGANICS** 

# VCM Rates Rise Continued from Paga 3

In advance," says one producer, "planning problems can be created." "On a long term basis the industry is not over committed but, on a short term basis, there are problems."

In addition, occasional operating problems are exaggarated undar such high production rates. Earlier this year B.F. Goodrich reportedly declared a force majeure when an unex-pected ona week shutdown at ite billionpound-per-year La Porte, Tex., facility forced it to fall below supply obligations.

While damand bas been strong, selling prices have been off about one to two cents

per pound from first quarter levels. Current settlements for July are at about 15 cents per pound. Export prices, aided by weak dollar values, are currently about half-a-cent higher than domestic settlements.

BRAKE FLUIDS - Dow Chemical U.S. says it will increase the off-list prices of its brake fluids by 25c. per gallon October 1. The increase affects all bulk and private label packaged brake fluids.

Major components of these propriatary blends are glycol ather highers and glycols. Current bulk list prices include \$4.90 per gallon for "BF brake fluid 470," \$5.40 per gallon for "BF brake fluid 920." \$4.40 for "BF brake fluid 1000," and \$5.20 per gallon for "Brake Fluid HD-50-4.

The above price ara f.o.b. Freeport, Texas, freight equalized. Drummed quantities are

60c. per gallon bigher. BUTADIENE — Butadiene prices, continulng their year-long slide, iost about one half cent per pound during August. Selling levels have reached as low as 12 1/2 c. per pound according to industry sources. Says one producer, "one would have thought that 13c. per pound was the bottom, but I've seen apot notes below that.'

Soma marketers feel that the rapid decline In butadlena prices this year may have been aided by the popularity of MTBE in octane improvment and a "reasonably strong" gasoline demand this Summer. "People may be moving butadiane in order to make isebutylena for MTBE," says one producer.

However, with crude oll pricas chowing renewed strength, September may be a watershed month for butadiena. One producer explains that consumers have, so far, been quick to point out that the decline in crude oil prices should be passed along in the prica of butadlene. "Whan (oil) prices come up in Sep-tember buyers won't be abla to do that," eays the source.

However, any increase in butadiene, motiviated by higher oll prices, will be preceded by a "lag time" of at least 80 days according

EPOXY PRECURSORS — Dow Chemical U.S.A. says that it will raise the list price of its apichlorhydrin and allyl chloride by 3

cents and 6 cents per pound respectively as October 1. Epichlorhydrin will list for 39c per pound on an f.o.b. basis. Allyl chloride will list for 71c. per pound. Dow will eliminate f.o.b. pricing on allyi coloride after October 1 and will sell the material on a delivered basis.

A Dow spokesman says that the price increases are needed in order too boost return on the producta, which bave not seen a price Increase for two and a half years. While Dow saya that diecounting is "not too widepread," It hopes that this move will replet ish mergins lost to recent price cutting.

Shell Chemical Company and Dow are the only domestic producers of epichlorhydria

## PRICES TRENDLINES

WEEK ENDING AUG. 29, 1986

CHANGES/UP

CHANGES/DOWN

## **ALIPHATICS INDEX**

The Allphatic Organics Index reflects the prices of 20 representative materials in this aector and the quantity of each produced in 1985.

Aug. 29, 1988 Aug. 22, 1988 Aug. 1, 1988 Aug. 30, 1985 ..

Chemical Prices Start on Pegs 34

and allyl chloride. Dow has a 420-million pound-per-year unit at Freeport, Tex. 30 Shell owns a 220-mllilon-pound-per-year plant in Deer Park, Tex.

As of press time lost week, Shell had he

comment on Dow's price change. EDTA — Dow Chemical U.S.A. says it ## Increase prices on all grade of its "Verset 100" plating agents by 3c. per pound on Odi-ber 1. New prices will not exceed currect is levels of 36.5c. per pound in bulk and 43.2 per pound in drume. The above prices at f.o.b. Freaport, Texas, freight equaliza

ETHANOL - While sales of fuel change showed only modest growth in July price chowed a gain of 9c. per galion on street over June values, occording to Informa Resources Inc. Strong premium gasoline mand, aided by lower prices and media? motions, according to IRI, have boosted mand for octane and made ethacel mat attractive. During July there was a lic p gallon epread in fuel ethanol prices with the per gallon being the low point in Baltimet Continued on Page 20

# ALIPHATIC ORGANIC OUTPUT: 2ND QTR. 1986

US INTERNATIONAL TRADE COMMISSION NUMBERS IN POUNDS.

	2-404-	tet Half
	2nd Qtr.	1986
the second secon	1886	1.424.160
Acetlo scidbs.	787,353	083.536
Anatona	484,433	255.215
Acricolitis	147,e29	412.489
p-Butanolbs.	218,444	1 389 043
n-Butanol be, Butadiene (rubber grade)	680,178	203,096
Carbon tetrachioridaiba.	188,781	203,131
Chloroform	118,530	277,993
Ethanolaminas (mono, di and tri)ibs.	132,502	98,403
	54,288	18.114.964
Ethylensibs.	8,081,043	2.318.507
Ethylena bs. Ethylena glycol, mono bs. Ethylena glycol, mono bs. Ethylena glycol, monoethylether bs.	1,088,485	144,681
Ethylens givool, monosthylether	70,483	2.921,040
Finulant Avidt	1,400,480	286,041
2-Ethylhexanol	138,178	283 607
Fluorocarbona 11 and 12	192,402	2.048,202
2-Ethylhexanol lbs. Fluorocarbona 11 and 12 lbs. Formaldehyde (37 percent by weight) lbs.	1,537,070	641,892
Repropyl Blochol	4 200 103	3.007音以
Methanol	1,523,123	213
Mathyl ohlorida, los.	101,353	278 102
Mathylane chloridaibs.	107 980	204 17 1
Methylethylketone	24 484	55-617
Pentaerythritol	400 UEO	205
Perchicrosthylensbe.	2 200 035	7 527436
Propylene (chemical and polymer grades), ips.	279 854	703488
Propylene (other)	186 582	2000
Propylena glycol	184.052	309 487
1,1,1-Triohiorosihana	109.508	200,000
Perchicrosthylens   Des   Propylene (chemical end polymer grades),   Des   Propylene (chemical end polymer grades),   Des   Propylene glycol   Des   1,1,1-1,0hioroethane   Des   Tetrachicroethylene   Des   Vinyl eastate monomer   Des   Vinyl chemical endomer   Des   Vinyl chemic	994 254	1,210,217
Viny esetate monomer.	2.081.028	4,089,000
Vinyl chlorids monomer, lbs.	Wine thank	

# Ownership

"As a sales representative for FMC, I try to run my territory as if I owned it. Everyday I put myself in my customers' shoes and ask: what are my customers' needs? and how I can fill them better than the competition?

"When I got the call on Saturday, I was out of town on vacation. But I had left word with all my customers where I'd be and how I could be reached. This customer needed a shipment of hydrogen peroxide in Jacksonville, Florida, ASAP or they would have to shut down. I immediately called our Charlotte Distribution Center. We had a driver within the hour and the shipment delivered by the end of the day!" Charles Flocco, Sales Representative, FMC Corporation, Philadelphia, PA.

Becoming our customers' most valued supplier means anticipating our customers' needs better than our competition . . . providing the best possible products and services to meet those needs . . . and doing so in a manner that creates a lasting bond of partnership and trust. It also means every FMC employee understands their customers and competition.

At FMC, we refer to this concept simply as "ownership." Each of us has a role, but we recognize our common objective is TO BECOME OUR CUSTOMERS' MOST VALUED SUPPLIER; to focus not just on the job we're doing, but also on the needs of those we serve.

A leader in the exploration, mining and processing of natural resources into chemicals, FMC's Industrial Chemical Group produces aikali, phosphorus, llthlum and specialty chemicals, and minerals.

We Want Our Customers To Value Us As Much As We Value Them.





61986 FMC Corporation. All rights reserved.

#### **COATINGS & PLASTICS**

Continued from Page 33

that a succeasful price Increase should enable them to maintain these high operating

#### PRIME PIGMENTS

CADMIUM PIGMENTS - So far, only one other domestic producer of cadmium red and yellow pigments has followed Harshaw-

#### **THERMOPLASTICS**

BULK PRICES IN AUGUST 1986			
Polyethylene-LD,liner	AUGUST (US 8) .2639 .2529 .2630 .3239 .3435 .2830	JULY (US \$) .2639 .2327 .2529 .3135 .3437 .29-30	
'Sutene-1 compnomer.	.2530	.29-30	

Filtrol Partnership'a move to increase list

and seiling prices.

SCM Pigments Division has announced that it will raise prices for its "Cadmolith" cadmium ilthopone and pure cadmium reds and yeilows by an average of 2 percent, effective September 15, 1988.

Prices for maximum volumes (ordera of one ton and over) of representative products

Yellow 300 "primrose yellow" will sell for \$3.03, Orange 340 "medlum orange" for \$4.05, and Red 200 "light red" for \$5.37. In its "Modern" series, "Hi-brite yellow 600," "primrose Hi Brite" will sell for \$3.03 per pound, orange "640 medium High-brite" for \$4.05 per pound and red 201 "flame red," for

A spokesman for the firm explains that increased labor, raw meterial and operating costs have necessitated the increase.

Effectiva July 28, Harshaw-Filtrol increased selling prices for its cadmium sul-fide, sulfosalinide and lithopone pigments by an everage of 2 percent.

Use of these pigments in specielty engineering polymere and alloys is said to be growing; demand is expected to reach 8 milion pounds this year (CMR, 8/11/88 p. 30). Clba-Gelgy, Johnson Matthey, Ferro Corp., the remaining 20 US producers have around \$1.37 per pound; those for selfelected not to raise prices.

#### PLASTICS MATERIALS

EPOXY RESINS - Dow Chemical Company will be raising list prices for epoxy resins and their precursors (see Aliphntics Market) effective October 1, company

List prices for its "D.E.R." iiquid resin products 300 series, will be moved up 4c. pcr mand. Another source disagrees, predicing pound, and those for its stendard solid 600 that domestic demand will fell from the series by 3c. per pound. Brominated solution gredes will be moved up 3c. per pound, and mixed solid/solution grade prices will be increased by varying amounts, depending on volume and grade. Prices for powder coating

A company spokesman says the price move is an attempt to regain margins lost to discounting, prevalant in the market for the

While producers have realized some sevlngs from lower hydrocarbon costs earlier this year, he continues, selling prices had deteriorated more than raw material costs. This increase should partially restore epoxy prices to more realistic levels, he adds.

Selling prices for liquid grades beve been steble since June, producera report, ranging

grades, however, have slipped somewhal moving from a range of \$1.33 to \$1.40 pc pound to from \$1.31 lo \$1.37 per pound by counts are said to remein at June's levels.

Producers provided of farent pictures of & mand this year. In 1965, the market should from 376 to 361 million pounds. One men expects demand to grow by 4 percent the yenr, led by the nerospece end market percent this year; nil end merkets should ontinue ot lost yeor's levels, this source let except for coatings, which he expects to lat by 3 percent.

Imports, never significent in this marks are expected to become even less so, sine the weeker US dollar.

Capacity utilization rates, hardto comete In this market, are "guessed" by one some to be in the 70 percent renge; no addition capacitles or expansions have been brough on line to date in the commodity epory ment. Dow expanded its line of specialry electronic grade "Quatex" epoxies in July.

POLYETHYLENE - All remaining my jor domestic producers of high dendit polyethylene have joined in last week's price increase move led by U.S.1 Inc., E.L. of Post de Nemours Inc., Enron Chemicals flormen Norchem) and American Hoechst Inc.

Allled Chemical Corporation, Anna Chemicals Company Inc., Dow Chemicals USA, Chevron Chemicals Inc. and Ma Polymer Corporation will be moving like aelling prices for their full lines of HOM resins up 4c. per pound effective October

Spokesmen for the firms feel that the higher prices will help restore profitability to the market, to ensure that supply keeps to with a growing demand, end to enable it firms to continue research and developmen

POLYSTYRENE - The Dow Chemical Company has formally onnounced that live relae selling prices for its "Styron" general purpose ond high impact solid polyslyne resins by 3c. per pound effective October List prices will not be affected; neither will those for Ignition-resistant grades.

Mobil Chemical and American Petrofin have ennounced similar increases informally, on an Individual customer basis.

The increase follows July's 3 to 4c. pc pound increase, which was fully deman driven end described by producers as large

Other producers have not yet decide whather to go along with the incresse, hit describe en atmosphero of axtremely sines, demend, coupled with higher feedslock and production costs.

## **ALIPHATICS**

Continued from Page 18

Md. and \$1.08 per gollon the high end is Franklin, Ky. The Baltimora price is up to per gallon ovar June whila the Franklin with is 11c. per gallon higher than June level is

With the imminent axpiretion of lead cree lts, distillers are hopeful thet athanol set may return to their strong growth mode a 1985. In July, total gasohol sales were iff million gallons, only 10 million gallons ere the pravious month. IRI says thet octant is "extremely scarce." BTX suppliers conce and call aromatic octena compone "tight." IRI maintains thet incremental tane is tight and explaina, "the finishing to pacity of the netion's refiners, including the crackars, isomerization units end reformer, are running near 100 percent — each shifts to process the inexpensive crude oil which it

avallabla on tha world oil market." Etbanol may be out of its doldrums at point, according to IRI, as the prices octana enhancers rise they see an incentiva by refiners to reevalue

etnanol options.
METHYL ETHYL KETONE - CA METHYL ETHYL KETONE

Chemical Company says it will increase to market price of its methyl ethyl sators. The per pound across the board of Company hopes to bring market from a current rane of 28% of \$850 to pound. Colambse the price of the pound of the current say per pound the white which includes a 20 per pound its price of the per pound its price.

The price of this a 30c per pound its price. **Carbide Takes Stock** 

Continued from Pega 3 to earnings before interest and taxes ratios of 3 to 1 for Dow and 4 to 1 for Monsanto. The significance of this ratio, he continues, is that in the case of a general business downturn, earnings for Cerbide could quickly drop to the level of interest payments, severely restricting the company's cash flow.

In his enelysis, the compeny "needs to get \$1 billion in essets sold quickly" in order to further reduce the debt and lower interest

Carbida hes, in fact, announced plans to divest another \$1 billion in essets, including the egriculturel products unit, which Mr. Wishart said will be closed by early next year. The company's plan cells for debt to be reduced to \$3 billion by the end of 1987.

Analysis have generally hed a positive reaction to most of the business lines Carbide has chosen to retain. The Chemicals & Plasilc group, the Industriel Gas Division, and the Specialities and Services group heve all been called solid performera. Only the smallest operating unit, Cerbon Products, bas come into criticism due to its close ties to the sputtering steel Industry.
Chemicals & Plestics bas seles of \$3.8 bil-

lion, 55 percent of Cerbide's total, and is the leading ethylene glycol producer in the world, and with Unlopol, e mejor force in the linear low density end high density poly-ethylene industries. The Industrial gas division, Linde, is the lergest such producer in the world. Mr. Wishert said, with a 18 percent share of the world market (32 percent in US) and \$1.6 billion in sales. The Specialties and Services unit has seles of \$800 million.

Mr. Wishert elso emphssizes the "critical" need for Carbide end the industry at large to generate trust end goodwill between chemicsl plants end the public, especially local

**REACH TOP** 

**MANAGERS** 

TEURING

Z

Business reaches

general managers,

works chiefs, plant

Business reaches

the people who run

the plants and make

Business can put

rate/operating man-

ales) aPA publisher's statement.

SCHNELL Schnell

you in touch with 23,744\* CPI corpo-

Chemical

executives.

Chemical

the products.

Chemical

become so advanced that the industry faces a tough challenge to educete and convince the public that production and transportstion of chemicels is being handled responsibly.

He seys this challenge can be met, though, by improving lines of communication be-

communities. "Chamophobia," he says, has

tween the plants and the community and by providing the public with a batter understanding of whet "goes on inside the fence."
Being "a good neighbor is the number one
mission" in the industry, he added.

Union Cerbide says it will "conduct business reviews with salected potential buyers" of its electrical carbon business later in September. The business is comprised of a range of carbon-based epecialty products for industry. Most of the products are sold under the "Netional" trademark. These include cerbon brushes, carbons and other cerbon and graphita products. The electrical carbon alness has operations in Fostoria, Oblo, Greenville, S.C., Parma, Ohlo, Toronto, Caneda, Juarez, Mexico, and Sheffield, Great

**D-BIOTIN FCC D-BIOTIN 1% TRITURATION D-BIOTIN FEED GRADE PURE D-BIOTIN FEED GRADE 1% or 2%** 

TANABE U.S.A., INC. P.O. Box 85132

San Diego, California 92138 (619) 571-8410 TWX: 910-335-1557

# Widest variety

# **NEODOL®** Surfactants

Selecting the right surfactants to manufacture products with bold performance and outstanding sales is easy when you choose Neodol alcohols. ethoxylates and ethoxysulfates from Shell Chemical.

Complete line. You'll always find the surfactant you need because Neodol products offer the widest selection of high performance alcohol based nonionic surfactants in the industry. Order from our standard line, or, let us develop s new Neodol surfactant that has the precise properties you are looking for.

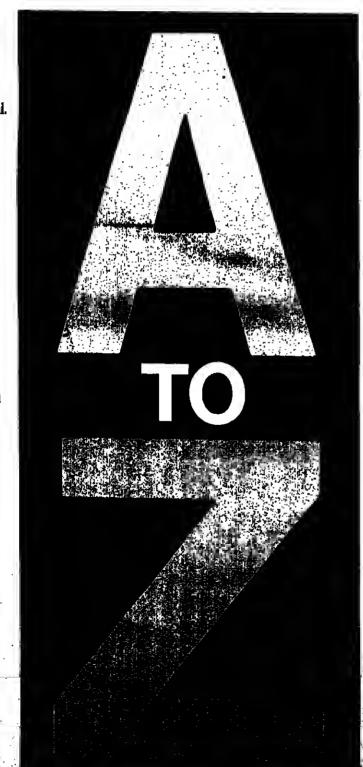
On-spec. Count on Neodol surfactants to be exactly what you order-every time. There are no surprises because Shell's continuous quality controls ensure that, batch after batch, Neodol surfactants meet your specifications to the letter.

On-time. A dedicated fleet of over 600 lined rail cars, nationwide distribution, large-scale manufacturing, integrated feedstocks and state-ofthe-art R&D all mean that both small experimental batches and large regular orders of Neodol surfactants reach you at the right place and time to meet critical production schedules.

It's as simple as ABC. The variety, quality and delivery of high performance Neodol surfactants make Shell Chemical the only surfactant supplier you'll ever need. For more information, write to Shell Chemical Company, Manager, Neodol Communications, One Shell Plaza, Houston.



Shell Chemical Company



# **AUSIMONT** announces: HALAR and HALON users are used to being served well. From today on they'll have to get used to being served HALON PTFE and HALAR ECTE, developed and nurtured by Allied Engineered Plastics, have just gained impressive marketing and technical muscle with their move To this new venture, AUSIMONT COMPO contributes its own important resources as well as the technical strength of its parent company, Montedison, recognized as the world's leader in broad fluoropolymer research and development. HALON and HALAR users can count on the same dedicated sales and customer service because the entire Allied fluoropolymer staff is now part of the Ausmont Even the plants producing HALON and HALAR are the But this new alignment adds the strength necessary to assure the growth and future development for both these products and more fluoropolymer technology to serve you AUSIMONT COMPOIN.Y Ausmout USA INC. More Technology to serve you befter.

CHEMICAL MARKETING REPORTER

Church Street; NY, NY 10007-2694 ■ 212/732-9820

Publishing



# **DRUGS & FINE CHEMICALS**

# **Penco Claims APAP**

patitive, Penco sells its material for less. sinness that improve response lo vaccine. Penco's apokesman won't specify powdered are baing vaatly improved. A spokesman or granular price, but says it charges \$5.95 says tha "new breed" of adjuvants is helplay per pound only for small quantities. The company charges between \$7.40 and \$7.50 per cines which may offer protection against dis-

pound for its direct compression grades.

European imports are said to be compatigitis and pneumonia. tive with the domestic product, but Chinese and Turkish material costs less. Howevar, as is the case with many products, many beliave tha quality of Chinese and Turkish material is not as high as that of the domestic mate-

Despite this, one importer of Chinese ma-tarial calls demand "healthy," and saya his company's powdered and granular prices are \$1.25 to \$1.50 less per pound than the domestic producers' prices.

Importers and domestic sources agree that imports are making inroads into the US market. The first half of 1986 saw 3.25 mililon pounds of acetaminophen anter the US, more than 50 percent higher than the total for the comparable period in 1985. One do-mestic producer says this is "obviously of concern," because the weakening dollar has not slowed tha imports. However, domestic sources say the import pressure is not enough to cause list price reductions. Imports are said to total about 20 percant of the US markat, up from 15 to 17 percent in recent yaars.

**DEMAND IS GROWING** 

Demand is growing for domestic companies aa weii. Mailinckrodt recently announced a capacity increasa to 22 million pounds, up from 17.6 mililon pounds. Monsanto's capacity is 15 million pounds. While sources claim growth, no particular markat segment is cited.

Acetaminophan playars benafitted slightly from the decision of Johnson & Johnson and other tabiat manufacturers to stop making capsules in favor of elongated tablets called caplets. However, increased demand was rimarily in the form of brief surges in the

beginning.
"Certainly there ware some surges (in demand), but now demand bas laveled," aaya ona producer. Another domestic producar comments that the transition from capsules to caplets was "very slow," but agrees that

there were some surges.
Force, which entered the market when these decisions were being made, says its timing wasn't such that it could take full advantage of the situation. "I don't think it hurt us...It just narrowed our opportunity for ousiness," says Penco's spokesman.

Meanwhile, as Penco attempts to make further inroads against Mallinckrodt and Monsanto, the industry awaits more news about Celanese's decision to enter the acetaminophen market by 1988.

In June, 1985, Celanese announced that it would begin commercial production of ac-etaminophen after developing a new process which it feels will allow the company to be-come the world's lowest cost producer of the

A Celanase spokesman says there bas been no change in the company's plan, and that it is looking to begin production on schedule, some domestic sources, however, have doubts that Celanese will actually enter the market.

One producer says if Celanese plans to enter by 1988, it is time to become more public and to start making commitments. This producer says he has heard nothing since the initial announcement

Likewise, another producer says, "I don't really think (Celanese) will ever get into acetaminophen," He says that all three existing producers have spent much time researching acetaminophen production, and does not un-derstand how Celanese can make it for less and still make money. He adds that he was "dumbfounded" by Celanese's announced plan because he doubts there is enough money to be made to make the venture worthwhile for a company the size of

ADJUVANTS - RIBI ImmunoChem Re Pharmater says that by using its "Carsearch, Inc., claims that its adjuvants, subrier," delivery of anti-cancer agents like

aases such as AIDS, hepalills, berpes, memb

Advances in blolechnology and geneticatgineering are sald to have apurred the new vaccines. Nils A. Ribl, presideot and chief operating officer of RIBI, says there areasentially threa ateps until the products, intro duced in January, ara immersed in the mer-

#### **PRICES TRENDLINES**

WEEK ENDING AUG. 29, 1986

CHANGES/UP

CHANGES/DOWN

**DRUGS INDEX** 

Tha Drugs & Fina Chemicala Index ri fiecla the prices of 10 rapresentative matariala in this sector and the quantity of each produced in 1985.

Aug. 29, 1988 Aug. 22, 1988 . 211.16 July 28, 1986 . 211.18 Aug. 28, 1985 .. 211.16

Chemical Prices Start on Page 34

ketplace. First, the adjuvants are being use now in research study. Much of the research is being dona by pharmaceutical aod hiotech nology companies. Second, the adjuvacts will have to break into the velerinary market place. This is described as a challenge by Mr. Ribl, because vaccine prices in this area are olow, it will be difficult to be cost-effective. Third, the product will have to be readed for human use. Mr. Ribi notes that an AIDS adjuvant is taking priority over most of the other disasaes, mainly because of ils importance lo the public.

A spokesman says naw adjuvacts would replace older vaccines developed over the past 50 years. A problem with the current vaccines, he continues, is that while be have been successful in combatting small pox, polio and measles, they can cause harm-ful side effects, such as redness, swelling and

RIBI explains that most existing vaccine are usually prepared from non-virulent whole organisms or from components of the organism. New vaccines use only small portions of the various bacterial or viral cells. However, while these are safer, some are no effective enough to stimulate stong immune

responses. Therefore, reasons RIBI, there is a growing need for adjuvants that can exploit he full potantial of these vaccloes.

RIBI is attempting to meet this need vis the raffel Adjust at Systems (RAS), Mr. Rist says this is an improvement over the stand ard research adjuvant. Complete Freund's Adjuvant, because it contains two percent of content, while the latter consists of killed whole tubercule bacilli with a 50 percent oil, and is unsuitable for buman and many animal uses. Mr. Ribi says that by substituting the whole tubercule bacilli with reduced of and non-toxic components, RAS is safer.

Mr. Ribi adds that encouraging result have been seen in developing cancer vaccines, but that this research is in its infancy.

ANTI-INFLAMMATORY STEROIDS Phamatec, Inc. and Nova Pharmaceutical Corporation have reached an agreement al-lowing Nova to become exclusive worldwide marketer for Pharmatec's "Carrier," deve oped for use with drugs to treat brain tumors and anti-inflammatory steroids to treat

# DRUGS & FINE CHEMS

chloramhucil and nitrosources to the brain will be made easier. Primary and metastatic hrain cancer cannot always be treated by drugs alone. Spokesmen for Pharmatec and Nova say the product to still being researched, and one noles the companies are hoping to hegin clinical Irlais in 1987, and to be marketing "Carrier" by the early 1990's.

Under the agreement, Nova pays Pharmalecto aynthesize two Carrier/drug combipations to treat brain inflammation and st least two "Carrier"/sterold combinations to treat brain inflammations. Pharmatec will also conduct animal studies to study brain delivery. Nova is funding development costs and clinical trials. According to a apokesman, Pharmatec will be able to manufacture tha products for Nova under certain conditions of the agreement.

D-CALCIUM PANTOTHENATE - BASE Corporation is raising the price of its USP-grada d-calcium paolothenate to \$12.50 per kilogram, effectiva September 2. This is a one-dollar per kilogram increase over its

previous price.

BASF raised its d-cal pan price as recently as late May. That was also a one-dollar-perkilegram increase (CMR, 5/26/86, pg. 18). BASK is said to be initiating this price increase and no other d-cal-pan spokesmen have announced similar increases yet.

The spokesman says that the increase is a further alternpt to raise prices to normal lavels, after a depressed period. Also, he says that supplies are currently very tight be-

cause the feed side has seen an increasa in demand. He continues that demand on tha USP side has been stable.

Other B-vitsmins are still firming, says the spokesman, although the list price has not been changed for any of Ihem recently. As for d-csl-pan, he anticipates further increase, but adds the price should not change during the remninder of 1986,

GLUCOAMYLASE - Enzyme Technology Corporation is raising its glucoamylase spot prices by about 15 percent, effective immediately. ETC is a wholly-owned substdiary of Greal Lakes Chemical Corpors-

The spot bulk price for "Zymetec" GA-200 is now \$3 per liter for fuel ethanol grade and \$3.50 per liler for food grade. Truckload quantities packaged in drums are 10c. per liter higher. Terms are net 30 days, f.o.b., Terre Haute, Ind. Contractual prices will remain the same for the rest of 1986.

# CHEMICAL **MARKETING** REPORTER

We're No. 1 in Chemical Coverage

#### Not all acetate salts are the same quality. Jarchem manufactures a complete line of Sodium Acetates from ACS Reagent Grade to Technical Material. **ALUMINUM ACETATE CALCIUM ACETATE MAGNESIUM ACETATE**

**JARCHEM** satisfies

the most demanding

connoisseur of acetate

SODIUM ACETATE SODIUM DIACETATE SODIUM AND POTASSIUM **HYDROXYACETATES** 

All our products are in inventory and ready for immediate delivery from our conveniently-located Newark, New Jersey, processing plant or through our national distribution network.

JARCHEM INDUSTRIES, INC.

40 BALL STREET NEWARK, **NEW JERSEY 07105** TEL. 201-344-0600

# Orion Corporation Ltd.

fermion

- Chlorhexidine Base
- Chlorhexidine Acetate
- Chlorhexidine Gluconate
- Chlorhexidine HCL

DMF's AVAILABLE

Phone: 201-281-7333 Cable: INTERCHEM-PARAMUS N.J. Telex: 6853353



120 Routa 17 North, Paramua, Naw Jaraay 07652 Bulk Phermacouticels . Vitamins . Fine Chemicals . Intermediate

# RITA Corporation d PANTHENOL

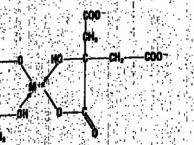
**PANTHENOL** THE EFFECTIVE MOISTURIZER, EMOLLIENT AND CONDITIONER

R.I.T.A Corporation, P.O. Box 556, Crystal Lake, IL 60014
FOR A HEALTHY GLOW TO SKIN AND HAIR CARE FORMULAS

CALL TOLL FREE 1-800-426-7759 / IN ILLINOIS CALL 1-815-455-0530

# MILES CITRIC ACID

THE VERSATILE CHEMICAL FOR: CHELATION



Miles Laboratories, inc., Blotech oducts Division, P.O. Box 932, Elkhart, IN 46515-0932 • 800 348 7414

## **BROMINATIONS** Basic in bromine, as a subsidiary of Ethyl.

# **ULLMANN REACTIONS**

Extensively and routinely used, e.g., phanoxybenzena darivatives. including intermediates for pyrethroid insecticides, monomers and plastics/resins

# FRIEDEL-CRAFTS REACTIONS

AICI<sub>a</sub> handling facilities for anhydrous reactant and spent solution.

HARDWICKE'S MANUFACTURING EQUIPMENT IS VERSATILE FLEXIBLE AND SAFE. BIOLOGICAL WASTEWATER TREATMENT IS ACCOMPLISHED WITH STATE OF THE ART FACILITIES. HARO-WICKE'S SPECIALIZED SERVICES, BACKEO BY ETHYL'S RESOURCES, RESULTS IN IMMEDIATE, THOROUGH AND CONFIDENTIAL EVALUATIONS



Hardwicke Rt 2, Box 50-A, Elgin, SC 29045 Telaphone (903] 438-3471 TWX: 810-871-1814

boehringei

OCEHRINGER MANNHEIM GMBH, MANNHEIM, W. GERMANY

Chloramphenicol USP Digitoxin USP Digoxin USP Doxepin Hydrochloride USP Fructose USP oral and injectable grades

## Rauwolfia Serpentina USP

Propylthiouracil USP Quinidine Gluconate USP Quinidine Suifate USP Quinine Hydrochloride FCCIII Quinine Sulfate USP Rescinnamine NF XIII Reserpine, Pure Alkaloid USP Spironolactone USP



S.S.T. CORPORATION

695 Brighton Road, Clifton, NJ 07012 (2011 473-4300

Toll Frees (800) 222-092 Cable: Bot Coll: CLIF

Telex: WU 133342 Telex: RCA 219149

**Crude Oil's Effect** Continued from Paga 3

prices yet. In addition, heating oil atocks in Europe are very high at present, sharply curtailing the need for crude in Western Europe.

Another Important factor in world oil prices, sources aays, are non-OPEC members who depend beavily on oil aales for hard casb. Mr. James notes that whlle Mexico and tha Soviet Union have paid lip service to following OPEC's production cutback policy, both countries' need for oll revenues may guickly sand them into the market with added voluma at lower prices.

Several other analysts have taken a "seeing is believing" stance towards OPEC's steadfastness. Patrick Baggett, vice-president of Chemical Marketing Associates, Inc., has taken tha position that "until we see some lengthy period of constraint (on the part of OPEC members to maintain their quotas), it is more than likely the price of crude oil will rether than increase." fail rather than increase."

Having said that though, Mr. Baggett, like most other analysts, directly attributes the current round of petrochemical price lncreases to higher crude values. Mr. Baggett attributes the current price firming to many oll dealers and traders who were caught short of material in early Summer and had to scramble in July and August to cover their positions. This, combined with speculation that the OPEC agreement would drive prices up, has led to the current run-up, he saya.

Naturally, benzena was the first petrochemical to respond to the reversal of crude's lengthy price silde this Winter and Spring. Hugh Pylant, project manager at Pace Consultants in Houston, says spot benzene prices have firmed from 85 cents to 88 cents per gallon on August 1 to 78 cents last week. l'oluene also followed upwards, moving from 57 cents to 80 cents a gallon on August 1 to 86 cents to 68 cents per gallon last week. Contract prices for benzene were raised 5 cents per gallon September 1 to reflect these higher levels.

Another observer noies that the spiral in benzene prices will continue at least through September. Leonard Boyd, president of Enex, Inc., a Houston consulting firm, says the benzene price increases are reacting to crude oll price firming in July. Crude gains posted in August, he notes, will not be re-flected in bigher benzene values until a Low density polycthy month later. He says that for each \$1 barrel

Upjohn

Don't see your steroid here?

Call us.

Cortisone Acetate USP

Dexamethesone Acetate USP

lydrocortisons Acetate USP Hydroxyprogeeterone Caproate USP Mathyltestosterone USP

Prednispione Acetate USP

Prednieolone Anhydroue USP

Teelosterone Cyplonate USP

Testosterone Propionate USP Triemcinolone Acetonide USP

Triemcinolone Diacetate USP

Uplohn - the leader in steroid

Upjohn

The Upjohn Company Ine Chemical Marketing

816-323-6844

Dexamethasone USP

luorometholone USP

lydrocortisons USP

Predniaona USP

Progesterone USP

Sitosterole Purified Testosterone USP

Ethleterone

adjustment in crude oil prices (up or down) benzene values change 3.8 cents per gallen

For example, he says if the price of crose pald by the refiner reached \$15 per band then benzene prices will reach 88 cents per gallon, If, as some speculate, crude price climb to \$18 to \$20 per barrel, benzene work then risc to 98 cents to \$1.07 per gallen And ns Mr. Boyd points out, benzene's demand position is having no impact on pricing the increases are coming about entirely due to cost pushes from crude oil,

Styrene manufacturers were among the first chemical intermediate producers to us. cosl increoses as a reason to hike price After a year of dismal returns on styrene, the producers posted 3 cents per pound price increases for September 1, a boost that strong operating rates at the plant may be In passing the increase. Two other major bear zene derivatives cumene and cycloherage were also hiked in price Seplember 1.

A second cost-push on slyrene is the 2 con per pound ethylene price increase isunched September 1. Ethylene Ilself came under strong cosl pressure last month when the price of two feedslocks, gas oil and naphr rose sharply as a result of higher crude prices. Gas oil prices rose nearly 10 cents per gallon and naptha prices shot up 9 cents per gallon during a two week period in August

The September 1 ethylene price hike follows a similar increase that failed in July Producers are seeking a selling price of Mil cents per pound. Mr. Pylant says the in price of ethane, which has become relatively acarce, coupled with the rising price of hear, feedstocks prompted the ethylena hike in addition, the high use of heavy feedstocks has aharply boosted the supply of co-products propylene and butadiene, both of which have been priced extremely low, further straining olefin makers margins.

Ethylene producers are helped by a very snug supply-demand balance. One acelystestimates that the industry is operating at over 90 percent of on-line capacity. Supplies have been further constrained at this time by turnarounds of several major producers such as Dow, Exxon, and Shell. One producer says that if the industry exercises "discipline," the increase should stick. In addition to posting the ctbylene price like, several olefin mak ers have also boosted propylene selling

Low density polyethylene makers moved right away to hike prices after ethylene price increases were announced. One analyst says LDPE price increases of 5 cents per pour were largely cost driven, but he also notes that demand is strong and the industry is operating at high capacity.

Plastic prices have been very weskfor the past yenr, sources nole, and any incress in

**SPECIALTY CHEMICALS** 



FROM A QUALITY SOURCE

HIGH PURITY INORGANIC CHEMICALS

Ammonium Fluoride Calcium Pyrophosphate
Barlum Carbonate Magnesium Carbonate
Cadmium Sulfide Strontium Carbonate
Calcium Eluoride Strontium Phosphate
Smallium Phosphate Calcium Phosphate Zinc Selenide dibasic

> Write or call General Electric Company Glass and Metallurgical Products Marketing and Sales Operation 24400 Highland Road Cleveland, Ohio 44143 (216) 266-2451

GENERAL SELECTRIC

raw materials costs will be quickly followed by polymer price hikes. For polymer makers, one analyst says, oil price increases represent a chance for polymer makers to jus-tify hiking prices, a task which has gotten very difficult since the crude alide last winter. The falled July 1 ethylene price hike, he noies, stymiad an effort by PE producers to boost selling levals. In the current equation, he says, if ethylene prices increase 2 cents per pounds PE prices should rise 3 cents per

In addition to these products, analysts project that many more petrochemicals and disstics will be raised in price Octobert 1, but only if the current crude oil price rally sustsins itself. Mr. Baggett of CMAl says, though, that if the OPEC accord disintegrates, or a non-member producer boosts supply, crude prices could quickly slip back under \$13 per barrel, enough of a decline, he says, to wipe out the price gains made by most petrochemical producers.

Continued from Page 7

occurred within a plant facility, the reporting requirement applies at the moment a persoo in charge has knowledge that a relesse of a reportable quantity of a substance

HIGH PURITY

REAGENT

ACIDS

Acetic Acid, ACS

Hydrochloric Acid. ACS

Nitric Acid, ACS

Sulfuric Acid, ACS

immonium Hydroxide, ACS

Call for details

90000

CORCO CHEMICAL CORPORATION

Manufacturers of Reagent and Electronic Chemicals

Yourn Road and Cedar Lane

Fairless Hills, PA 19030 (215) 295-5006

leaves that facility, even if the environmental release occurs through the air venting The adjustments of the final reporting levels for 102 hazardous substances include lowering the reporting levels of 30 chemicals

raising the reporting levels of 38 chamicals and formally leaving 34 at the original re-porting levels. Of these 102 hazardous substances, reporting levels for 63 substances were originally established under the CWA. The reporting levels are determined on tha basis of a substance's tendency to ignite, to react with other substances, to cause acute

and cbronic health effects and potential to cause cancer. In addition, the agancy considers the substance's likelihood to form more hazardous products in relation with other substances or to degrade into less harmful components in sunlight and in water, reducing immediate and potential threats.

On April 4, 1985, EPA set final reporting levels for 340 of the 717 aubstances. The remaining 275 substances are still being assessed for potential carcinogenicity and Hazardous Substance chronic toxicity for future adjustment, If nec-

## **Chemical Distributors**

1990. Two primary factors contributing to the higher growth are the faster overall growth of these industrics and the increasing focus placed on these indiritries by distribu-

The new Kline survey i. a comprehensive onalysis of the U.S. chanical distribution husiness hased on over 3:0 interviews with distributors, producers, end users, and other irade factors. The survey profiles the businesses of 126 chemicals distributors and provides a lhorough analysis of the business dynamics and driving forces for growth. In addition, ten end-use industries are analyzed in terms of their use of distributors. The report is avnilable on a subscription basis from C. H. Kline & Co., Inc., 330 Passaic Avenue, l'airfield, N. l. 07006 or Kline S.A., Rue Froissart 89, B-1040 Brusscls, Belgium.

#### **Plastic Molding** Continued from Page 7

Experts in the plastics industry predict that by 1095 the cubic volume of plastics produced in the US will exceed that of sleel. They also estimate a five-fold increase in the use of engineering thermoplastics at the expense of die-cost metol within the next five yenrs, he went on,

"The Industry is in a strong growth mode, but industry perception antionwide is that the state's existing molded-plastics plants ure resistant to modernization, a situation uvorable to start-up companies using the latest design and manufacturing technology," Mr. McIllienny says.

Need a **Quick Study? Chemical Profiles** 

**CILAG AG** Schaffhausen, Switzerland **Custom Synthesis** Service in Europe for U.S. Drug Companies By American Drug and **Chemical Manufacturer** Located in Switzerland Please contact: S.S.T. CORPORATION Phermaceuticals - Intermediales - Vitamins - Fine Chemicals 635 Orighton Road, Ciliton, New Jersey 07012 (201) 473-4380 Toli Free: [800] 222-0921 Cobie: 887 COTIP. CLIF

Call Orlex at 201-797-6600 for quality intermediate chemicals for pigment, for quality intermediate diferricals for pigment, dye, metal finishing, agricultural, synthetic organic, pharmaceutical and photographic products. Suitanilic Acid
Phenyl Methyl Pyrazolone From our regular inventory: • Gamma Acid

" J Acid Urea " Qamma Acid
" Quinizarine " Metanilic Acid
" O·Tolidine DiHCi " Metanilic Acid
" Sodium Meta Nitrobenzene Sulfonate
" Sodium Meta Nitrobenzene Fluorides
" Complete Line of inorganio Fluorides

Orlex Chemicals Corporation Constitution Orlex Chemicals Corporation & Knowles Orles Chemicals Substitution of Computer of Com

CHRICACID

Pfizer has been responsible for major breakthroughs in citric acid technology.

Pfizer is recognized as a world leader in termentation chemistry.

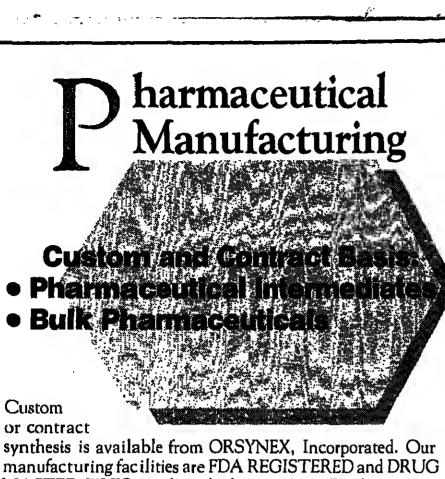
Texas, 214-647-0222 • California, 714-250-3260

Pfizer is the world's largest supplier of citric acid. Pfizer has five regional sales offices for better service and quick delivery.

Regional Sales Offices: New Jersey, 201-470-7700 • Illinois, 312-381-9500 • Georgia, 404-448-6606

CHEMICAL DIVISION 235 EAST 42nd STREET, NEW YORK, N.Y. 10017

CHEMICAL MARKETING REPORTER:



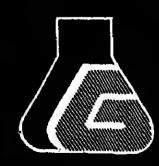
Custom or contract

synthesis is available from ORSYNEX, Incorporated. Our manufacturing facilities are FDA REGISTERED and DRUG MASTER FILES are furnished on request. For free capabilities brochure, call or write:

A Subsidiary of Essex Chemical Corporation

1401 Broad Street, Clifton, NJ 07015 (201) 773-6300

# **ISOXSUPRINE HCI**



Ganes Chemicals, Inc.

Manufacturer of Medicinal Chemicals for Over 50 Years

1114 Avenue of the Americas New York, N.Y. 10036 (212)391-2580

Information and Samples available on request

CHEMICAL MARLETTINI REPORTER. September 11980

# **Environmental Solutions Available**

Continued from Page 5
nel should be taught to look for these errors, nel should be taught to look for these errors, and anomathing not practiced now because "Its not searchers have isolated a group of enzymes which can improve the economics, efficiency femiliar with the facility and fall to see problems which othera..will see."

Development of spectal safety training programs for plant personnal, formalized emergency plans and inspection procedures, proper labeling of stored hazardous wastes, and the use of spill pans in loading and unloading areas were among the solutions ha

proposed.

Mr. Brandweln made bis presentation based on a paper he wrote with Gordon T. Brookman, also of Environmental Risk Lim-

Another researcher reported that Blological treatment, using bacteria, could prove to be the most effective way of removing polychlorinated blphenyls from New England's Housstonic River. But, according to Bryce I. MacDonald, manager of environmental is-sues for General Electric in Fairfield, Connecticut, until this technology is parfected, restricting the down-river flow of PCB's ahould be the focus of clean-up efforts.

Mr. MacDonald cited transport of PCB's as a crucial tssua because of the river'a flow pattern. From its source in Massachusetts where the greatest number of PCB's are concentrated, the Housatonic runa through Connecticut and into the Long Island Sound. While sections of the river in Massachusetts are not used extensivaly for recreation, the presence of PCB's in the Connecticut stretch threatens" one of the best trout rivers in New England," Mr. MacDonald sald. He added that Connacticut's goel of using the Housa-tonic "as a fully devaloped recreation re-

aource" is also in jeopardy.

Physical removal of the PCB's poses a problem, eccording to Mr. MacDonald, because available technologies, auch as aedi-meet removal or rechannelling, are expen-sive or would have a substactial impact oo

On the other baod, he proposed, blological treatment may be the key to long-range PCB clean-up efforts sloca bacterts can work affectively underwater with little or no negative impact on the aurrounding area, Ha cited studies conducted in the Hudson Rivar and in Illinois' Weukegan Herbor where becterle were found to detoxify PCB'a.

Mr. McDonald informed attendees that General Electric's leboratory has "isolated and charactarizad two dozen bactarial strains cepable of blodegreding PCB'a..." However, be believes "lerga scela application is some yeara awey."

In the meentime, Mr. MacDonald suggated thet restriction the flow of PCB's down-river, using dems as aediment treps, could help minimize the problem. He described en experiment underwey oear Woods Pond, Mess., thet is closing off the by-pass on a dam in en effort to keep the compound from flowing further down-straem.

Since the greatest concactretion of PCB's is just north of this region, the sediment trep could reduce overall trensport of PCB's into Connecticut end Long Island Sound.

In enother presentation to the meeting, e researcher seld thet edvances in blotechnology mey revitalize the paper industry. Daclining profits due to rising costs for wood. chemicals, energy, lebor and pollution-contrul equipment have characterized the US
pulp and paper industry in recent years.

E. Michael Egan, an executive with Repli-

and environmental effects of pulping proc

Treditional pulping relies on chemical and mechanical processes that "bave various handicaps which include high energy con-aumption, damage to...fibers, low yields, corrosion end environmental nulsance," Mr. Egan asld. He reported that the new group of enzymes compare favorably on all these

The enzymes have been isotsted from the white rot fungus, which occurs naturally in forests. Now produced on a laboratory-scale uaing ganetically-engineered bacteris, Egan believes industrial-scale production will be come possible with further research.

"If available in sufficient quantity, these enzymaa could be used to carry out many of the reactions in pulp processing operations."
Mr. Egan remarked. He added that "ultimately, it may be possible to produce high quality, color-stable pulp in high yisid using processes predominantly based on enzyme

#### **EPA Guidelines**

Continued from Page 3

priority will be given to continuing today and validate alternative methods to the presently used and somewhat simplistic linearlzed, multistage model," he went on.

"We also hope the important Nalional Academy of Sciences workshop on pharma-cokinetics, acheduled in October, will expand the use of pharmecokinetic data in assessing risks and that the output of that 'state-of-the science' review will quickly be incorporate In these guidelinea. We are pleased that AIRC has been able to join with EPA and the National Institute of Environmental Health Sch ences in cosponsoring this important scientific meeting."

## WEGO CHEMICAL & MINERAL CORP 417 Northern Blvd.

Great Neck N.Y. 11021 (516)487-3510 Telex: RCA 289948 WEGO UR Charleston, S.C.... (803) 795-579 Houston, Texas.... (713) 469-092

Potassium Ferricyanide Potassium Farrocyanide Sodium Ferrocyanide (Y.P.S)

Sodium Benzoata Citric Acid inositol **Methyl Salicylata** 

Potassium Permanganate Oxalic Acid Sulfamic Acid Sodium Haxametaphosphate Sodium Tripolyphosphate Sodium Hydrosulfite Sodium Thiosulfate

# Fine Chemicals Hulle!



ACS • USP/NF • FCC

Call Robyn Hawkins for competitive prices

East Coast Stocking Point, White Plains NY

SELLIN

SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEORO ST. GARDENA, CA 90248 TELEX: 182395

(213) 516-8000 or (800) 543-0852: In Callt. (800) SPOTRUM and the war was a fact of the same to be a fact of the same

# **PERFUMES & FLAVORINGS**

# Natural Menthol Imports Rise Due to Tariffs and Contracts

Natural menthol imports surged from 68.357 pounds in May to 422,909 pounds in June. The June amount is nearly half of the January through June, 1985, imports, which totalled 652,793 pounds. Prices, however, have remained stable

at \$6 per pound. The buying spree was a carryover from the 1885 Import climate, when, according to one importer, "China was unable to meet its commitmenta in terms of shipping dates, causing a shortfall of material." The consumer reacion was to secure longer-term contracts in the event of a future ahortage, and to buy a larger percentage of Brazillan menthol. As a result, from April 1, 1965 to March 31, 1986 Brazilian imports accounted for 53 percent of the American market, making it ineligible for preferred status, aays thia same lmporter. Thus the import Increase was due to buyers beating the July 1 reinstatement of Brazil's US tariff.

Ths long-term contracta provide incentive to the brokers, says an importer, because "they can then fulfill their remaining obligallons at a lower price." The market itaelf remains unaffected: "The market is quite stable, not fluctuating more than 5 percent ellber way for the last year."

One trade source auggests that heavy rains in China would reduce the harvest by knocking the leaves from the stems, but an importer familiar with domestic and foreign mint crops rejects this. "As long as the crop is planted it will be distilled. Rains do not affect the harvest more than a few percentage points every year."

#### DIFFERENCE OF OPINION

The difference between the Chinese and Brazilian menthols is entirely one of opinion. The Brazilian enjoys a traditionol clientele. The majority of my customera prefer the Brazilian becausa they'vo been buying it since the fifties," aays an importor. But a broker says there's e qualitative differance: "The Brazillan is not neorly os nice us the Chinese manthol; the Chineso la composed of long, beautiful cryatals."

According to one source, synthetic menthol compstition has tightened considerably: "The manufacturars heve fixed production cosis and sinca pricos have dropped by neorly a third from \$20 per kilo to \$14 per kilo in the issi yssr, it's more difficult to make n profit." Ha contends the natural monthel producing countries have en odvantago. "When

dealing with naturol costs, lobor is the issuc.

Brazil and China's netural costs ere lowar." Us import tariffa pley n big role in the synthetic industry. The teriff on Jepenese material is 3 percent while the Jepanese tariff on imports is 37 percaot, eccording to one irade source. Mexico obtained the prefarred status, and now controls over helf of the US mental in tribut, yet "their status remains, they still don't pay any duties," claims a manufacturer. "The Mexicans can now buy malerial abroad. naterial abroad, reexport it to the US, end still beat the going price."

ptioo of menthol is broken down totacco products, 45 percent, toothpaste and other over the counter products, 40 per-cent, and other products, 15 percent. "Menthol is a very mature market," says an analyst, "and the tobacco industry claims the total number of cigarette smokers is decreasing."

# SEEDS & SPICES

LAUREL LEAVES Laurel leaf prices described up over 135 percent in the last two weeks from 80c, per pound for Turkish semi-select to \$1.90. The same essumption behind the oregans price turns redisactive conthe oregano price jumps, redioactive contamination of the 1986 crop, is responsible for the Laurel last situation.

Rumour has it that the 1966 harvest is going had," says one importer. The outlook is worsened, he says, by a poor 1965 crop: "Last

year's crop was so amall they're asking astro-nomical prices for what's left."

A lack of hard avidence is proving frustrat-ing to the industry. "No testing has been done to determine the quality of the crop," says a

#### PRICES TRENDLINES

WEEK ENDING AUG. 29, 1986

#### CHANGES/UP

Annatto Seed, Dominicen, 3c. per ib.
Asnatto Seed, Indien limited, 5c. per ib.
Annatto Seed, Kanyan, 2c. per ib.
Caraway Seed, Dutch, 3c. per ib.
Chillies, Indies, 2c. per ib.
Cil Weed, Egyptias, 18c. per ib.
Fennel Seed, Egyptias, 4c. per ib.
Gerselum Oil, Egyptias, 52 per ib.
Laurel Leeves, Turkieh, semi-select, falb.

Nutmeg Oil, \$1 per kilo Nutmege, E.i. Whole, 5c. per ib. Nutmege, E.i. Reconditioned delivered Oregeno, Greek/Turkish, 20c. per ib. Oregeno, Greek/Turkish, 20c. per li Poppy Seed, Outch, 4c. per lb. Poppy Seed, Turkish, 13c. per lb. Poppy Seed, Australian, 5c. per lb. Sage, Oslmation Prims, 5c. per lb. Thyme, Spanish, 3-5c. per lb. Thyme, Franch, 2c. per lb. Vetivert Oil, Haltlan, \$3.50 per kilo

#### CHANGES/DOWN

Cerdamome, indlee bleached, 50c. per lb. Clove Leal Oil, Medegescar, \$2.50 per kilo Cumin Seed, Turkish, 3c. par lb. Geranium Oil, Chisese, \$3.00 per kilo Ginger Oil, ledien, \$2.00 per kilo

#### **PERFUMES INDEX**

The Parfumas & Flevorings Index re flects the pricea of 11 rapresantetiva materiala in this sector and tha quantity of each supplied in 1985.

	VI da	WII W		dui idaa.	
	Aug.	29,	1986	*** **************	71.00
•	Aug.	22,	1986		71.00
	Aug.	1,1	966 .	************	71.00
	Aug.	26,	1985		71.00

broker, "but we know that Turkey can't ship

Chemical Prices Start on Page 34.

PEPPER - White pepper recorded its largeat jump in price this week since early April, from \$2.45 per pound to \$2.78. Reports that the Brazilian whita pepper crop will be reduced from 6,000 to 1,500 pounds fueled tha Increose.
In oddition to Brazil's decisioo, on im-

porter saya, the European demand bas in-creesed: "The mejor market for white pepper is In Europa and tha buylog climata thara has become more active." A brokar suggests that prices were held down in anticipetion of this ectivity. "White papper may have been held ateady because the producers were walt-

ing for the Europeae demand."
The impact of the Brazillan reduction is timely, coming just before its harvest of Sep-tember and October. Indonesia's white crop-barvest ended in Jupa, according to one source, leaving only the more flexible

Mah paian growers an opportunity to adjust.

Black pepper prices continued to disministration with Brazilian, Lampong, and Malabar allerising 5c. per pound. The market strength is reportedly due to increasing demand.

SAGE - The prices of Albanian and Turk-Ish sage increased last week for the first time since late Fabruary. Albanian sage want up too. to \$1.45 per pound and Turkish limited sage rose from 15c, to 20c, to \$1 to \$1.10 per pound. Laboration state recollected with a bor per pound increase from \$1.50 to \$1.50, per pound increas presumably in response to its competitors prica hikes.

An importer suggests the same hesitancy in the oregano market applies to the Alba-niao end Turkish saga. "As long as there is some doubt over the ability to distribute sage oo the US market, buyers will pay more to be reassured."



#### FLAVOR AND FRAGRANCE MATERIALS

**Benzyl Acetate Benzyl Alcohol Cinnamates** Cinnamic Acid **Cinnamic Alcohol** Cinnamic Aldehyde Nerolin (2-Ethoxynaphthalene) Yara-Yara (2-Methoxynaphthalene)

For hundreds of years, notine has been more exacting about flavors and fragrances than we, Europeans, Now CdF Chimie, a leading producer of organic compounds, has the above product line aveilable from its <u>QSQP spa</u> at titles in Italy, some from local U.5 stock. Foi soles service, please conjuct

CdF Chimle North America, Inc.

iel: (914) 833-0311 lelex, 261570 CDFNA-UR

We are a Full-Line Chemical Distributor Specializing in...

# FLAVOR & FRAGRANCE CHEMICALS

Benzyl Alcohol Benzyl Acetate Benzaldehyde Benzyl Benzoate Benzyl Proprionate Cinnamic Alcohol Cinnamic Aldehyde Diethyl Phthalate Pure Ethyl Alcohol Specialty Denatured Alcohola Call: (201) 941-3480

Metro Oil & Chemical Goro. Box 569 Hudson Ave. Ridgefield, NJ 07657



# Two MORE reasons to use Genuine Recovery<sup>™</sup> Drums:



# **GUAR** LOCUST BEAN GUM

GUMS, BOTANICALS **EXTRACTS** OLEORESINS, OILS



Division of **NATICO**. Inc

5100 West 67th Street

Mear Corporation, I 9500 Railroad Avenue, North Bergan, N.J. 07047 / (201) 861-9500



# **Chemical Finance**

#### Mesa Partnership Offering Preference A Units

Mesa Limited Partnership has filed a registration statement covering an offering of up to 23 million Prefarence A units. The partnership also announced that it intends to continue to distributa 50 cants per quarter par common unit through at least the lirst

#### **Amoco Calling Its 1989 Floating Rate Notes**

Amoco Corporation, Chicago, will axarcise its right to call all of the \$76,142,000 of outstanding floating rate notes due 1989 and listed on the New York Stock Exchange Citibank NA in New York and First National bank of Chicago will act as co-paying agents. Amoco also will redeem \$29,799,000 of debentures listed on the Luxembourg Stock Exchange.

#### **Borden Completes Acquisition of Doxsee**

Borden Incorporated has completed the previously announced acquisition of Dorsee Food Corporation for \$32.5 billion, or \$10.75 per share.

#### Albright & Wilson's Profits Off in 1st Half

Albright & Wilson Ltd., of the UK had a 2 percent decline in sales in the first half to \$491.4 million from \$499.4 million a year ago, and profits before interest and taxation were off 3 percent to \$36.2 million from \$37.4 million. Capital expenditures were \$15.1 million, versus \$33.2 million a year earlier.

#### Cetus Corporation to Set Up Subsidiary in Europe

Cetus Corporation, Emaryville, Calif., will form a wholly owned subsidiary in Europe to develop, manufacture and directly market the company's thera peutic products on bat continent. Initial focus of EuroCetus will be on interleukin-2, tumor necrosis factor, colony stimulating factor-1, human monoclonal antibodies and immunotoxins for breast

#### Falconbridge Completes Sale of CFC Stake

Falconbridge Ltd., Toronto, Cansda, has completed the sale of its 6,673,296 shares of Corporation Falconbridge Copper to Kerr Addison Mines Ltd. for \$18 per share. The shares represent 50 percent of CFC's outstanding stock.

### Freeport-McMoRan Gold Opens New Plant

Freeport-McMoRan Gold Company, Naw Orleans, La., has begun gold production from its new heap-leach facilities at its Jerritt Canyon mine, fifty miles North of Elko, Nev. This new process provides a low-cost mathod of recovering gold from Jerritt's lower-

#### UCC Selling Electrical Carbon Business

Union Carbide Corporation intands to sell its electrical carbon business as a further step in its program to anhance shareholders' values. UCC will conduct business reviews with selected potential buyara in the next few weeks. Proceeds will be used to reduce corporate debt. The business has operations in Ohlo, South Carolina, Canada, Maxico and

#### American Petrofina Plans Offering of Equity

American Petrofina Inc., Dallas, Tex., hos filed a statement with Securities & Exchange Commission for the offering of 1,205,000 shares of class A common stock to its stockholders on a ratio of one new share for each ten now held, at a price of \$45 per share. The company's parent, Petrofina Deloware, Inc. — a wholly owned aubsidiary of Petrofina SA of Brussels, Belgium — will subscribe to the shares to which it is entitled.

### Bayer's income Rises on Steep Sales Drop

Bayer Group, of West Garmany, exparienced a sharp salas decilne of i2.2 percent in thatirst half to 21.596 billion West Garman marks (about \$10.7 billion) from 24.593 marks (\$1.28 billion) a year sariler, iargely reflecting the declina in the value of the dollsr versus the mark, along with some price weakness. Profits before taxes, however, rose slightly by 0.9 percent to 1.74 billion marks (about \$885 million) from 1.725 million marks (\$882 million).

# Economics Lab Buys Chisso Stake in Japan

Economics Laboratory, St. Paul, Minn., a provider of institutional cleaning services and products, has purchased Chisso Corporation's 50 percent share in their joint Japanese venture, El Japan, thereby raising its interest to 100 percent.

## **Enzon Planning to Raise New Capital**

Enzon Incorporated, South Plainfield, N.J., developer of the process to mo zymes with polyathyiena glycol (PEG), is drawing up plans to increase its cspital base. The program is expected to include the issue of 1 million new common shares for public trading, placement of a large block of trading. trading, placement of a large block of untraded stock and sale of a signifloant investment to another pharmacautical company. Enzon now bas 8.3 million shares outstanding with a market value of about \$70 million.

# ICI, BOC, Wardle Storeys Shares Recommended

Greenweil Montagu Research in the UK has resiffirmed share purchase recommendations for Imperial Chemical Industries PIC, BOC Group PLC and Wardle Storeys PLC. The company's advice on Hickson International PLC and Yorkshire Chemicals PIC is to hald the shares Page 18 and Judy hold the shares. Recently the firm's analysts — Stuart Warnslay, David Ingles and Judy Shaw — raised their recommendation on Brent Chamicais PLC from hold to buy. The recommendation on Alma NV of the Hallands is to hold the shares.



# from USS Agri-Chemicals to LaRoche Industries Inc.

We've always delivered quality products on time, LaRoche Industries Inc. carries on the tradition started by USS Agri-Chemicais. We are the same qualified people and we offer the same quality products. Only our name has changed with the purchase of USS Agri-Chemicals Industrial Products Group by LaRoche industries Inc.

LaRoche Industries Inc. is the nations largest distributor of industrial ammonia and related services. Our customer's needs are served quickly and efficiently from twenty-two strategically located distribution centers across the United States. Our fleet of trucks and rail cars deliver a full line of quality ammonia products in sizes to sult your needs. Whether you need anhydrous ammonia or aqua ammonia we have the delivery system to get it to you on time.

Responsibility to our customers, however, doesn't stop here. We work with you, providing expertise and technical knowledge to help you with your project. We can help you design systems to meet your specific needs and we have the process and safety equipment to complete them. We can also repair or modify existing system.

One of the most important services we offer is our "AMMONIA USERS SAFETY SEMINAR" We will come to your facility and teach your employees what they need to know about the safe handling of these products.

Call your nearest industrial Products Regional office today for more information and share the old traditions of our new company.

# LAROCHE INDUSTRIES INC.

1100 JOHNSON FERRY ROAD, N.E. ATLANTA, GEORGIA 30342 (404) 851-0300

REGIONAL SALES OFFICES

Atlanta (404) 294-1330

Chicago (312) 655-4950 **New York City** (201) 472-8008

Los Angeles (213) 402-2013 (714) 630-3205 SURFACTANTS amd

EMULSIFIERS

913-321-3131



THOMPSON-HAYWARD

A member of the Harrisons & Crosfield Group P.O. Box 2363, Kansas City, Kansas 66110

# BUY METALLIC SALTS?

Be right the first time.

BE RIGHT THE FIRST TIME.

For a FREE, customized booklet of tech data, specifically oriented to your needs, contact us today.

CP Chemicals, Inc., Arbor Street, Sewaren, NJ 07077 • 1-201-636-4300

THE MICAL MARKETING REPURIER

# **HEAVY & AG CHEMICALS**

# Sulfuric Acid Mart Continued from Page 7

per net ton, f.o.h. manufacturing and we house iocationa East of the Rockies, and its

per nct ton f.o.h. Denver, Colo., and by Polnt, Cslif.

Tha naw distributor schedule price for powdared alum in 100 pound bags is \$245 per net ion f.o.b. East Si. Louis, Ill., and Notic Claymont, Del., and \$275 per net too, fair

Shipments ex-General Chemical water

PRICES TRENDLINES

WEEK ENDING AUG. 29, 1988

CHANGES/UP

Caustic Soda, \$25 per ton Sodium chlorate, \$25 per ton

CHANGES/DOWN

HEAVY & AG INDEX

of each produced in 1985.

Aug. 29, 1986

Aug. 22, 1988 Aug. 1, 1988 Aug. 30, 1985

itive point.

Tha Haavy & Ag Chemicals Index 19

flects tha prices of 18 representation

materials in this sector and the quarky

Chemical Prices Start on Page \$4

isouses will not be equalized with any comp

higher iohor and energy costs and to me

facturing costs unrelated to raw material

Goneral Chemical reduced dry sium price

in April from \$217.60 per ton to \$185 per to

in response to the threat of low priced in

ports from Jamelca (CMR, 5/5/86, pg. 14)

General Chemicai now says import

ume declined when the price was decreased

and points out that a similar pricing respons

CAUSTIC SODA - Last week three ch

ralkali producors announced price has creases for liquid caustic soda, foliosis ile losd eatablished he Dow Chemical (CAL)

could be repeated if necessary.

A spokesman attributes the increase

Bay Point, Calif.

Conn., that usually consumes acid recovered at Gaspe, is being supplied with US standard ground and low iron granular to aluminum sulfata in 100 pound bags kind. material bought by Noranda.

Noranda has also shipped virgin acid into Canada that was made hy Essax at ite Newsrk, N.J., plant. Norands considers this an exception, though, and says that for tha most part Canadlan accounts bava been filled with Canadlan acid, dua to considerstions of cost, shipping rates and curency values. Moreover, as other metal smaltars come back on Ilna after Summar turnarounds, Norands feels more Canadisn acid will become available to fill Canadian

Also affected by the strike is Delta Chemi-cal, Inc., which markets soma Noranda material. Sources say Deita has increased output from its Searsport, Maina, virgin acid plant since the strike hagan.

A Du Pont company sulfuric acid manager says that aithough his company markets no Canadian msterial, it has experienced increased demand at its Grasselli, N.J., sulfur burning plant. He says Du Pont has filled ordera for some US huyers who ordinsrily purchase Canadian acid. Du Pont produces virgin acid st a number of locations and markets domestic smelter acld.

Another repercussion of the strike is the August 20 start-up of one of C-I-L's sulfur-hurning planta in Sayerviila, N.J. C-I-L mar-kets soma of the output from the Valleyfield

In May C-I-L had announced that the Sayerville plant would be re-started by tha end of 1966. A spokesman now says the date was moved up, at least in part dua to the Noranda atrike. He says C-I-L's inventories hagan to drop this Summer and that the early start-up was necessary to ensure adequate customer

Sources in the Southeast and Midwest say that the Norands shutdown has had little if sny effect on supplies in those areas. In fact, s spokesman for PVS Chemicais, a large Midwest producer, says pricea have suffared over the past few months sa a result of competition from other sources in the North.

Prices in the northeast have been raintively atahla, despita the markat shifting, and tively atabla, despita the markat shifting, and atart at shout \$85 per ton for 100 percant scid, sold to larger secounts. Prices in the Midwest, which had been on psr with tha Northeaet this Spring, are said to bave dipped about \$3 per ton. Southeast pricing ramsins the iowest, hetween \$55 and \$60 per ton.

Bureau of Census figures indicate that prior to the Norands strike, Canadian sulfurio acid imports were running very strongly.
Through June, 519,075 tons of scid were imported from Canads, as opposed to only 162, 652 tons imported through June of 1665. Canada accounts for over 60 percent of ali

#### **BASES & SALTS**

ALUMINUM SULFATE - General Chemicsi Corporation (formarly Allled) has announced an incresse in tha schedule price of all grades of aluminum culfate. The increase becomes effective immediately on spot orders and October 1, 1668, as allowed

The naw distributor so

# PRICE HIGHLIGHTS

INORGANICS IN AUGUST

1		: :.	AUG.	JULY
Amm	anh 110 A.	8	(US\$)	(U\$\$)
Cana	onia, US Gui	Gulf, rallcan	78-80	78-80
Chic	ins, US Gur	Cult Palican		80-90
DAP	US Cull, bar	HOW THE PERSON NAMED IN	140-180	140-15
Soci	Asil, Green	Ahrer Uhas	130-132	
Suin	ric Acjd, S.E	Detrake	73-77	. 74
Price	4 274 brahas	ons and re	65-60	56-80
for b	The purpose.	MAIN SING IN	191013	diquotati
	2.570			Y

cording to ierms for contract customers.

US. The Southern region includes the states f Oklahoms, Arksnsss, Tennessee and North Carolina and all states South. Alby-Oiln's new list price for solution

that effective immediately it is amending the

The list price for Kerr-McGee's huik sodium chlorate crysial produced at Henderson. Nev., will remain at \$40 per ton, f.o.h.

The price announcements follow a period (CMR, 7/26/88, pg. 9).

SULFUR DIOXIDE - Cominco American Inc. is increasing its price for sulfur dioxide to \$150 per ton from \$140 per ton. The new price is effective October 1 and is f.o.h.

A spokesman says the company is follow-



SERVICE IS OUR MOST IMPORTANT PRODUCT

- \* SEALANTS \* ADHESIVES \* LUBRICANTS
- \* GREASES
- \*AUTOMOTIVE
- \*CONSTRUCTION \* MANUFACTURER

SERVING THESE MARKETS & OTHERS

\* EQUIPMENT TO LOCATE A DISTRIBUTOR IN YOUR AREA CALL IOLICATE A DISTRIBUTION IN YOUR AND IOLIFREE: 1-800-826-4403 INKENTUCKY: 1-802-737-87567 OR WRITE: INLAND PACKAGING INC. HUGHES INOURTRIAL PARK ELIZABETHTOWN, KY 42701

25,66, pg. 27).

LCP Chamlesls & Plastics Inc. has increased its off list price for liquid cards soda hy \$30 par ton, affective immediately as contracts allow. The increase is let his as contracts allow. The increase is let his ragular and rayon grada material in prices will not exceed currently list prices

which are \$220 per ton for regular st. \$240 per ton for rayon grade, f.o.b. all olin Corporation announced an increase tha off-list price of caustic sode by the ton, affective immediately for specific

tomars and as contract terms permit.
Terms of sale for Olln remain f.o.b. plate freight equalized with the nearesi recogn competitive producing point at time of the

Dismond-Shamrock Chemical Competing also announced a \$25 per ton increase in the competition of the competit off list price for liquid caustic soda, silection August 26 to spot customers, and as iers

Dlamond-Shamrock notes that ary, 1685 the chloralkali industry 7,700 tons per day of effective call that since peak capacity ievels in all a capacity has been redoced

10,000 tons per yds.

The company adds that demand soda has improved over 1985 isvell liquid caustic soda inventories significantly from 1985 year.

SODIUM CHLORATE. chlorate producers have and creases itollowing a move initial malvord. Inc. (CMR, S/11/88, Alby-Olin, a joint ventured tion and alby Klorat AB, is

# HEAVY CHEMICALS

sodium chlorate price hy \$25 per ton, effective immediately for spot customers and ac-

Thenew price of sodium chlorate crystal is \$315 per ton, delivered, in the Northern US and \$335 per ton, delivered, in the Southern

sodium chlorate is \$330 per ton, f.o.h. McIntosh, Ala., freight equalized with the nearest recognized producing point at time of ship-Kerr-McGee Chemical Corporation says

list price for hulk sodium chlorate crystai produced at Hamilton, Miss., and sold to the pulp and paper industry, to \$335 per ton, reight allowed and prepaid.

Henderson, Nav., freight equalized.

of capacity rationalizations which has improved the industry's supply/demand picture

Trall, British Columbia.



INDUSTRIAL ACIDS

HYDROFLUOSILICIC ACID - Gar-

dinier Inc. aays it is increasing the price of its hydrofiuosilicic acid (HFS) and sodium silico-

fluoride (SSF), effectiva October 1. HFS wili

he liked to \$160 per ton, 100 percent ton

hasis, for contract customers. Spot saies,

when sysllable, will hast \$210 per ton, 100 percent ton basis. The current price is \$140

SSF will he increased to \$21.50 per hundredweight from \$16.75 per hundredweight.

Gardiniar attributes the increase to the

continued tightness of the water fluoridation

chemicai msrket (CMR, 8/11/66, pg. 26). The

announcement follows a similar one made hy

Freeport Chemical Company (CMR, 7/26/

66, pg. 25). The two companies are generally regarded to be the largest SSF producers.

Both prices are f.o.h. Tsmpa, Fla.

Thousands of children lika Danialla . . and adults, ioo . . gat the help thay naed from Eastar Soals to carry on their fight for an indapandani lifa.

Your halp is naadad, ioo.



WESLIG and WESCHEM LIGNOSULFONATES

WESCO TECHNOLOGIES, LTD.

LIQUIO AND POWDER

(714) 661-1142

TELEX (GRT) 3718858 WESLIG

P.O. Box 3880

San Clamante, Calif. 82672-1880

RAIL CARR TRUCKLOADS

# POTASSIUM CHLORIDE U.S.P. and A.C.S.

**Whittaker** 

Heico Chemicals Division

fer Chemicsl (CMR, 6/16/86, pg. 26). Cominco produces suifur dloxide as a hyproduct of zinc and lead smeiting. Cominco's smalter is in the process of coming back from a month-long turnaround. Cominco shares the Northwest aufur dioxide market with materisi sold hy Stauffer and Virginia Chemical.

# CALABRIAN **GULF COAST PRODUCER\***

- CUPROUS CHLORIDE
- CUPROUS IODIDE
- CUPRIC CHLORIDE

Warehouses located

Nationwide

ING

Offices:

1445 No. Loop Wasi Houston, Texas 77008 (713) 880-9981

promptly teams wateriouse, 2

ITT TWX: 494-5520 CALABRIAN CHEMICALS CORP.

# **Dry sodium** icates: Save on hydrated and

anhydrous powders and sodium metasilicates, in cost-saving semi-bulk packaging.



Combining silicate chemistry with imagination.

Sodium Tripolyphosphate

Trisodium Phosphate Sodium Perborate

Sodium Metaslicate

GRENICAL MARKETING REPORTER



# For Chemicals, Your Best Move to the Marketplace.

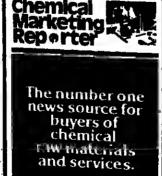
For over a century, CHEMICAL MARKETING RE-PORTER has been carrying the message on chemicals and services to the world marketplace.

From snow-clad Alaska to darkest Africa-wherever chemical business is done-decision-makers eagerly await its weekly arrival. For CHEMICAL MAR-KETING REPORTER is heavily freighted with news about the chemical industry-news of plant expansions, corporate mergers, finance, chemical price changes, market trends and government actions. It is an important cargo, essential information on which deals and purchases are made.

CHEMICAL MARKETING REPORTER will give you quick access to the world marketplace.

Advertise and CHEMICAL MARKETING REPORTER will put you on the fast lane to the deal-makers

and the buyers of chemicals and services.





Schnell **Publishing** 

100 Church Street, NY, NY 10007-2601-212/732 9820

# **COATINGS & PLASTICS**

# Du Pont and SCM Raise Tabs for TiO<sub>2</sub> Next Quarter

Responding to higher production and ning extensive capacity expansions. raw materiel costs, and the rising expense of complying with RCRA environmental regulations, both E.I. du Pont de Nemours Inc. end the Pigments Division of SCM Corporetion plan to increese list prices for enatese and rutlle grades of ilianium dioxide (TiO2) effective Octo-

Anearlier July price led by NL Industries, which imports TiO<sub>2</sub> from Canada and West Germany, was not followed by US producers: the last successful domestic price increase occurred in October 1985.

SCM Corporation will move its rutile grades up by 3 ceats per pound and its anatase grades by 4 cents per pound; the firm will be eliminating discounts, making the actual lacrease aeveral cents per pound higher for most customers. According to a kesman for the company, the industry needs to raise aelling prices to ensure adequate supplies in this cost-intensive market, where even temporary problems with one or two isolated plants can have devastating effects on supply.

#### **NEW SELLING PRICES**

Maximum quantities (i.c., 20 lons and up) of its "Zopaque" RG, RGM and HSS anatase pigments will sell for 78e. per nound and "Zopaque" RCL and RCS rutile grades will sell from 81 cents to 83 cents per pound.

Du Pont plans to increase prices by 2 remis perpound for rutlle and 3 ecuts per pound for analase. The average selling price for their rutile grades will be 77 cents per pound, and that for anatase, 80 cents per pound.

Kerr-McGee Corporation, which manufactures a synthelic-based TiO; using ilemite, has not announced an increase, although company spokesmen concede that production costs have increased substantially within the past year.

Despite lower energy costs, producers report that costs of several key raw materials have increased substantially this year: costs of natural rutile, imported from a variety of sources lecluding Canuda, Africa and Australia, are said to have increased 12 to 30 percent over last year, reflecting cust of cuironmental compilance for are milners.

Chlorine prices are up as well, pruducers relate As the trend away from sulfate prueess to the environmentally sound chlorido process, already complete in this country (only two domostic facilities out uf nine curreally use the sulfata procoss) bocomes more pronouced worldwide, any change in chio-fine prices is passed on to TiO2 producers. In addition, insurance and tax costs are reported to the costs are

reported to be up an additional 10 to 12 par-

The market is mature, but demand is strong, and expected to rise by 2 to 3 percent this year. this year, different sources provide different projections — ooe producer expects it to move from 1985's 920,000 tons to between 930,000 and 940,000 tons this yeer; another reports that the demand last year was closer to 935,000 tons, and expects it to move up to

Exports are expected to remain stable at last year's levels, as are imports.

Earlier in the year, analysts predicted a drop is import levels es the US dollar began to weaken. While sources indicate thet several sealer producers in the Fer East end Europe have dropped out of the market, they indicate that the large importers, particularly NL and Tioxide inc., are set on maintaining a strong market presence here, and taining a strong market presence here, and the prepared to faceshifting economic condi-

As once source expleins, imports ere beded to keep an already delicate supply and demand attaition in balance; any decrease in imports could worsen an already all major domestic producers are plan-

SCM expanded ita Stollingsborough UK plant last year and is considering converting its Austrollan plant to obloride process — It has been involved in extensive debottlenecking projects, and is considering future expansions, to be phased in slowly. Kerr-McGee completed expansions at its

#### **PRICES TRENDLINES**

WEEK ENDING AUG. 29, 1986

CHANGES/UP

CHANGES/DOWN

#### **COATINGS INDEX**

Tha Coatings & Plastics Indax reflacta tha pricas of 13 representativa materiala In this sector and the quantity of each produced in 1985.

Aug. 29, 1986	306.4	ı
Aug. 22, 1986		
July 31, 1966		
Sept. 2, 1986	306.4	l

Chemical Prices Start on Page 34 

ilamiiton, Miss., plant during the first quarter of 1986, and is considering adultional ex-pansions there in the future; the firm la also trying to license new production technology overseas, a company source states.

Du Pont is planning new operations "evcrywhere," according to a spokesman. In a well-publicized move to add 50,000 tons to its domestle output by 1908, the company has initiated different dehottlenecking projects il the firm's four domestie plants.

Similar projects are planned for its Mexican plant, where the firm hopes to add 25,000 tons of capucity hy 1088. New plants are scheduled to npen in Talwan in 1989, and in Koren nud Brazil in 1990.

#### ENVIRONMENTAL PROTESTS

The firm had reportadly been having trouble getting construction of its chiorida process plant underway in Talwan, as local environmentel groups protested (CMR, 7/ 14/80 p. 5). Fisharman and farmers in the orea, worrled obout the effects the Du Pont plant inight have on the ecosystem pressured officiola into ordering tha firm to prapara an extensiva environmental impact study to assess possible damage before allowing con-atruction to begin.

As a company source explains it, the situe-tion experienced with the Talwan plant is not a naw one - virtuelly every naw TiO2 plant opening has met with protest from local environmental groups. It took four years to get the Mississippi plant opened.

In en attempt to demonstrete its good will, tha company invited between 20 and 30 delegetes from Talwanese environmental groups to tour Du Pont's Delaware end Mississippi lators end environmentalists; this should cootinue until next year, by which time con-

cootinue until next year, by which time construction should begin. Cooperation with environmental groups is now accepted as an inherent part of new TiO2 plant construction. Supply levels are extremely tight. Some producere report that their customers are allowing four to six weeks for delivery. Those who have been able to keep up with orders cite increased cooperation with automers. Cepacity utilization is said to range from 98 to 100 percent of nameplate; one firm reports that its debottlemecking projects have enabled it to operate at rates sych slightly above published aspectly. They feel

Continued on Page 20

# WHEN YOU NEED EPOXYCURING AGENTS... **COME TO US**

JEFFAMINE D-230 **JEFFAMINE D-400 JEFFAMINE D-2000 JEFFAMINE T-403** Aminoethylpiperazine Accelerator 399

Atlanta (404) 321-4411 Chicago (312) 920-3685 Clevelend (216) 752-5100 Houston (713) 520-3628 Los Angeles (714) 898-9278 New York (914) 253-7861 London 44-1-584-5000 Toronlo (416) 441-7761 U.S. Distributor Sales (713) 432-3866

Texaco Chemical Company

# IS ALL IT COSTS FOR FIFTY-TWO ISSUES

**CHEMICAL MARKETING REPORTER** AND OUR ANNUAL OPD CHEMICAL BUYERS DIRECTORY

Ġ
3.
•
٠,
•
1

(6) D Processing & Production (6) Distribution

☐ Ubrarlan/Consultant

Subscription rates: Domestic US, \$85. a year; Europe (cirspeeded); \$135. a year; Japan (alrapseded), \$220. a year; Canada and rest of world, \$95. a year.

# CHEMICAL PRICES

**WEEK ENDING AUGUST 29, 1986** 

This chemical prices eection contains epot quotations end/or list prices of suppliers of chemicals and releted materials on a New York or other indicated besie. The lietings ere based on price information obtained from suppliers. Note thet posted prices do not neceeeerlly represent levele et which transactions actuelly mey heve occurred. They do not represent bid end aeksd pricee, nor a range of prices over the week. Price ranges may represent quotations of different euppliers as well es differences in quentity, quelity and location. All metters under this heading are fully covered by copyright.

An index of weekly chemical market reports is on the back cover.

				_
			Alumina, activated, gran., 100-lb. bgs., 40,000-lb. min. c.i., works.ten 621-00	_
<b>A</b>			calcined, bulk, eame basis jon 354.00	-
			100-lb. bge., same basis ton 360.00	-
_			hydraled, white, bulk, same ba-	-
	_		100-lb. bgs., eeme basis ton 224.00 Aluminum acetate, basic, dms., l.c.l.,	-
les siberica oil, cna b.	15.00	-	works	_
eldehyde, 99%, tanks, frt. alkd. ID. Ices 1c. higher in West.	.37	-	Aluminum chloride, anhyd., soln., 500-	
minophen (see N-Acetyl-p-aminophe	enoi)		600 lb. dms., o.l., t.l., works, frt. equeld	.55
inilide, tech, flaked, bgs, 1.1., 1.o.b.			bulk, earne basis	.48%
works	1.29 .25	=	semi-bulk bine, same basis ib	.53
anhydride, tanks, dyd. E lb.	.431/2	-	Atuminum chloride, comi., soln., 32° tanke, works 100 lbs. 15.00	-
dc anhydride prices 1 a. higher in We acetaniide, dma., 1.i., divd ib.	1.28	_	ret dma., a.l., works 100 lbs. 12.00	-
oscat-o-enisidide, dms., I.i.,			Aluminum formete, dibasic, lig. 6%	-
dvd	2,70	-	Al <sub>2</sub> O <sub>2</sub> 1.l., works	-
divd	2.86	_	Aluminum hydrate (see Alumina, hydrated) Aluminum hydroxide, dried, gel, NF,	
eci-o-ioluidide, dms., t.i.,			75-lb. dms., c.l., 1J., works. lb. 2.75	3.60
dvdib. nce1-m-xylidide. dma., 1.l.,	t,58	-	Aluminummetal, 661/2% or more, 50-th, pige., 30,000-lb. lote, 1rt,	
CIVO	3.33		ald	_
ne, tanks, divd. E lb. I. Zone 2 (Celd.)	.26 .27	-	Aluminum oxide amorphous (see Alumine, calcined).	
d. Zone 3 (W. of Nockies exclud-		-	Aluminum paste, leafing grads, eld lining, 2,400 lb. lofs,	
ing Cafif.) b.	.27	E 414	divd	_
onlinie, lanks, frt. elid, b. opheneildin (see Phenecetin).	.53	.5414	I PINITO, EXTENDIO, BAME DANS ID. 1.519	2.14
ophenone, tech., tanks, f.o.b.			Atuminum phenoisulfonate, purif., 100- klio dina., t.l	
works	.76	.85	Aluminum poweler, leafing goode, etc.	_
trine grade, extra cns	2,15	•	lining, 2,400 lb. late, divd lb. 3.17	-
workskilo	5.95	6.64	1 Autominum Steamers, DQS,, C.L	1.37
lene black, Imp., 50% com- pressed, 127-lb. bgs. c.l., 1.l.			Aluminum suife1s, comi., grd., 100 lb.	
(cl. axtra b.	.99	-	bgs., c.l., worke, irt. equald., basis 17% Al <sub>2</sub> O <sub>2</sub> East and Guit	
100%, 25-lb. bgs., same ba-			Coasie ton 185.00	-
els	.951/2	-	West Goest ton 217.80	-
Work 8	.97	-	Iq., lanke, N.E. same basis ton 145.00 iron-free, dry, bgs., c.l. same	-
salicylic acid, USP (see Aspirin). Irributyl citrate, bulk, 1.o.b.			1 000l8 ton 300.00	_
Works	1.28	-	ilq., tanks, same basis (on 225.00 28	6.00
friethyl currete, bulk, f.o.b.			Alumhum sulfete, USP, gran., dms. lb33 Aminoscelic scid, USP, dms., 20,000	1
works	2.08 .62	-	109., 1.0.b. works	_
smide, solid, t.L. works lb.	1.00	· <u>-</u>	b. lech., I.I., same basis	-
L. 100% basis lanks works ib.	.74	77	more, dms., Lo.b. works , kilo 8.60 1	0.10
dvd	.67		2-Amino-4-chilorophenol dry and grd.,	
i, tanks, frL alki b.	.60		14,000 lbs. or more, irt. elid. lb. 5.79 Aminoethyt ethanolamine, tanks, irt.	-
onlinie, tanks, works b. onlinie-butediene-styrene resin,	,391/2	.451/2	CONOCT	-
high-impact, nat., t.l., dms.,			14-Milandoning Diberazine, Janks, 1.O.D.,	
divdb.	1.09 1.05	1.12	2-Amino-2-ethyl-1,3-propenadiof	-
dium-impact, net., same basts fb. impact, nat., same basis ib.	1.05 .98	1.08 1.01	dms., t.l. f.o.b. workslb. 1.82	-
c acid, resin grade, bulk, hopper	-	٠.	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS	خي
cars, int. equald	.67 .69	-		
USP, powd., 60 to 100 mesh.,				7
ib. ioi, syn. C-S to C-10, tanks, 1.o.b.	9.50	9.B5	1 0 0 0 mm	W.
Worke	.36	-		Ÿ
12 to C-13, tanks, divd	.57	.59	B B B B	
14 to C-16, tanks, divd 10. 1B to C-1B, tanks, divd lb.	.57 .60	-		
nyde, C-9, drns b.	4.10	5.70	THE TERMINOLOGY OF THE	ا ا
7, dms	t.95		THE TERMINOLOGY OF THE	'nĖ
3, dms	4.30	6.30 5.35	a/alpha C Cantrigueto	
(see Sodium algineta.)	,		slid./sllowed chys./carboys	
li blue, dry, Rushed, 110-lb. dms, divd	3.72	3.83	ANO/American mellion	eter
kaliblus prices to higher W. of	3.72	0.00	point CD/completely d	eu-
Rockies.	•	•	AOAC/Association of o.l.i./cost insuran	ice
ce Guatamalen / Honduren, bgs	.88		Official Agricultural freight	
meloso, bos	1.05	,	Chemists Che./Cans	
l alcohol, tanks, f.o.b., Bayport, Tex	.90		phorio acid comi./commerci	4
l bromide, 500-kilo dms. 2,000 lbs.		• •	Androv /s provoulestate Cond./Concentra	ted
of more, worksb.	5.50	4.50	erili artificial Cos (centicoles	- I
yl caproste, 25-lb, cns lb. yl chloride, tanks, i.o.b. works lb.	3.90 .65	: 4.50	ety for Teeting & Gryst./Grystatine	
yl isothlocyanate, bots	5.40	6.90	Materiels ctrs-/cartons	
nondol, artif., biller (see Benzalden) nond oil, nat. biller, NF 1.1.p.a.	(08.)		cyls./cylinders	
bats	3.50	3.60	b/beta	•
awee1	1.24	1.50	Be/Beurne d-/dextro	٠
os, Cape, os,	2.00 2.25	2.75	b.d./beta-namme densi /densi	
Cureção, kos b.	2.60		bos /begs dest-dist /dess	UÓ-
powd., kgeb,	3.00		l looks frontiles	١
oin, NF, cima	8.00	B,70	bots bottles didentro seyo b.p./colling point dist./distilled b.p.t./poine phosphate dist./distributo	1
	35.00	- 1	b.p.t./bone phosphete distr/distributor of time divd./delivered	ί.,
CC powd., fiber dms., works 100bs.	55.00	-   v = ;	Old Miles	
m holeschun tech den han a'l			The state of the s	
am, potassium, tech, gran, bgs., ci., Li., works		iki (ji	b.r./boiling range dans./dr.lims bas./boxes domi/domissio	1

Jamins College	и.	a teles 0 marked 1 proposed 050%			Anisa seed. Egypt, bgs
junks, I.o.b. works. De Ammonphenol, dins., I.o.b. Charlotte. N.C. P. Ammonphenol, I.I. dims., I.o.b. Charlotte. N.C. P. Ammonis, analytic, Inditiser, whicesade, tensis, did. Midwest stimulates. I.o.b. Buff Cosss. 1 ton 90.00 85.00 general light of the control		2-Amino-2-methyl-1-propanol, 95%.	.95	-	Spanish, bas
Riskigh, N.C.   160   7.15   7	1	ranks Lo.b. works		-	Turkish lygs
Riskigh, N.C.   160   7.15   7	П	o-Aminophenol, dms., f.o.b. Charlotte.			Anisic nidehyde, cas . dins
Riskigh, N.C.   160   7.15   7	H	N.C	3.95	-	n. Ansidne inn oost ooks d
p-Anthonesterijke acid, USP, 50-biol 18 50 p-Anthonesterijke acid, USP, 50-biol 18 50 p-Anthonesterijke acid, McMevest stemines acid, acid, McMevest stemines acid, acid, McMevest stemines acid, acid, McMevest stemines acid, acid	H	p-Aminophenol, I.I. dme., 1.0.b.	7.00		
Ammonium direkty, disentiare, wholeseles, tanks, dird. Middwest termines is unit to the termines is upstead it of flocks in the sequence, 24% NHs, army, beast, tanks, fir, equald E of flocks in the sequence and the termines is upstead its of flocks in the sequence and the termines is upstead its of flocks in the sequence and the sequenc	11	Rateigh, N.C	f.15	-	Makes some hasts
Ammoris, arthyd, fertilizer, wholeseles, and the complete time method and the complete time and the complete time time and the complete time and time and the complete time and the complete time and time and the complete time and tim	ı	-Aminosalicylic acid, USP, 50-kilo	18 50	_	Anthuandicacat puril .99° min. d
tanka, dird. Midvest termination of the control of	Н	A -monte annual fartilizar wholasale	10 30	,	tt.trt.iikt
mels tankcars, La.D. Buff Coss ton 85.00 170.00 squeous, 28.4% NHs, arrhyd basis, tanker th requide Le of Rock Basis, tanker three types Le of Rock Basis three	П	tanks died Midwast 18/111-		100	Animy ov lippisorate in cone. 17
tankcars, Cab. Bull Cosss. Lon Squeous, 24-8-bit, annyth basis, Lanka, Irt. squad. E. of Roch. Ammorisce liquer (see Ammoria. equeous). Ammorisce liquer (see Ammoria. equeous). Ammorisce liquer (see Ammoria. equeous). Ammorisce sit visits (see Am	H		165 00	170.00	dms.1.1. writes
squeous, 28.4% Hit, arhyd basis, tanks in taqued E. of Ricchies.  Ammoratical Ruper (see Ammorate, aqueous).	1 1	tankcars, f.o.b. Bulf Cosst ton	60.00	85.00	Antimorphoral dust, C. (1992)
tanke, frt. squaid. E. of Rock.  Ammonitace liquer (see Ammonita. equipocus).  Ammonitace liquer (see Ammonita. equipocus).  Ammonitace si, virtie (see Ammonitar. chiroride cond.).  Ammonitam biboreas (see Ammonitar. chiroride cond.).  Ammonitam bicarboneta, s00-tb. tb.  dm. e. d. works 100 bs. 28.00 - Ammonitam bicarboneta, s00-tb. tb.  Ammonitam chirologie, white, tech.  file gran., bgs.  L. L. works	П	aqueous, 29.4% NH <sub>s</sub> , annyd. basis,			ald E of Bookies
Ammonium biborate, gran, adma, cl., Li., Lo.b., works.  Ammonium biborate, gran, adma, cl., works.  Ammonium biborate, gran, admb, cl. works.  Ammonium bicarboneta, 300-b, ib.  Ammonium bicarboneta, 500-b, ib.  Ammonium bicarboneta, 500-b, ib.  Ammonium chrotic, dorn, NF, gran, dra.  J. J	П	tanke, frt. equeld. E. of Flock-			Antimuny trichloride, prings
Ammonium bicarios, gran., dins., C. J. Aprical kernoria, dins. Aprical kernori	H	leaton		315 00	dost works
Ammonium blorwines provider 15c. per ID. higher. Ammonium blorwines photo-filho grad, gran. 100-bb. 28.00 Ammonium blithuorida, bgs., 11. works.  Ammonium blithuorida, bgs., 11. works.  Ammonium blithuorida, bgs., 11. Ammonium bloroide, dom. NF, gran. Ammonium dihoride, whita, tech., fines gran., bgs., 100-bb., 1.31 Ammonium dihoride, whita, tech., fines gran., bgs., 100-bb., 1.40 Ammonium dihoride, whita, tech., fines gran., bgs., 100-bb., 1.40 Ammonium dihoride, whita, tech., fines gran., bgs., 1.00-bb., 1.40 Ammonium dihoride, whita, tech., fines gran., bgs., 1.1. Works.  Ammonium fluobores, tech., dms., c., L.I., works., t., paprox. Ammonium higani, sulfonesis, bb., Ammonium higani, sulfonesis, bb., Ammonium higani, sulfonesis, bb., Ammonium nitris ta, dom., ferilizer grades, 33.54 N, butk, 5.5. Ammonium peralusta, 225-bb, dms., 24.000 lbs. or more, 1.0.b. Ammonium peralusta, 225-bb, dms., 24.000 lbs. or more, 1.0.b. Ammonium peralusta, 225-bb, dms., 24.000 lbs. or more, 1.0.b. Ammonium peralusta, 225-bb, dms., 24.000 lbs., or more, 1.0.b. Ammonium peralusta, 225-bb, dms., 24.000 lbs., or more, 1.0.b. Ammonium bitoopride, tech., dms., 25-bb, bgs., anis beals  Ammonium bitoopride, chis, cl., paprox., Ammonium bitoopride, chis, cl., paprox., 25-bb, dec., paprox., bb, 6.0 Ammonium bitoopride, chis, cl., paprox., bb, 6.0 Ammonium bitoopri	ı	Ammoniscal liquor (sas Ammonia, equeo	(15).		Apomerphinu hydrochloride, NF, b
Ammonium biborate, gran., dam., cl. works. 100 bs. 28.00 - bgs., cl. 100 bs. 28.00 - hgs., cl. 100 bs. 28.00 - Ammonium bicarbanete, photo-titho grade, gran. 100-bb. dma., 1.11 works	1	Ammoniac sai, gaivanizing grado, bgs.,	20 50		
Ammonium blorate powder 15c. per lb. higher Ammonium bloratoriets, 300-b. ki. dime, c1, works. 100 lbs. 25.00 - Ammonium bloratoriets, bp. 1.1. 70 - Ammonium blittuorids, bgs. 1.1. 70 - Ammonium blittuorids, bgs. 1.1. 70 - Ammonium blittuorids, bgs. 1.1. 31 - Ammonium blittuorids, bgs. 1.1. 31 - Ammonium citrets, dibeaio, 250-b. dime. 1.1. 1.6. b. works. 1.00 bs. 4.0. 2.79 - Ammonium dimelybdate, approx. 69%, 24,000 lbs. or more . b. 5.48 - Ammonium lauryl suffices, b. b. 2.79 - Ammonium lauryl suffices, b. b. 2.8 32 Ammonium lauryl suffices, b. b. 2.8 32 Ammonium surgicines, b. b. 1.2 1.88 Ammonium regalities, 225-b. dime. 24,000 lbs. 1.6. b. 26 32 Ammonium persolities, 255-b. dime. 24,000 lbs. 1.6. b. 26 32 Ammonium surgicines bowder 20c. part b higher. Ammonium surgicines bowder 20c.	11	C.I., I.O.D. WORKS 100/DB			Apricol kernciol, diris
Ammonium biborate powder 15c. per ib. higher. Ammonium bicarborates, 300-b ib. dom., c.l., works. 100 bs. 28.00 - Ammonium bichrometes, photo-ditho grade, gran. 100-b, dime., i.l. i. works	11	Ammonium hiborate oran dina. C.	DI IUU COI	a.j.	
Ammonium blothomete, 300-b. b. b. dms, cl., works. 100 bs. 25.00 - bgs., cl. works. b. 200 - Ammonium blothomete, photo-blind grade, gran. 100-b. dms., ll. works. b. 70 - Ammonium blothomete, whita, tech. fine gran. bgs., cl., works. b. 70 - bgs., cl., works. b. 70 - bgs., cl., ll., fa.b., works. b. 70 - bgs., cl., ll., fa.b., works. b. 70 - bgs., cl., ll., ll., fa.b., works. b. 70 - bgs., cl., ll., ll., fa.b., ll.			.90	_	USB grada
Ammonium bichromete, photo-ditho grade, gran. 100-lb. dme. 1.1.1. works b 200 - Ammonium bichromete, photo-ditho grade, gran. 100-lb. dme. 1.1.1. works b 70 - Ammonium bichromete, bps 1 40 - 59 - 40 40 - 50 - 40 - 40 - 40 - 40 - 40 - 40 -	ł	Animonium biborete powder 15c. per ib			
dme, cl., works. 100 bs. 58, cl. hmonoium binthurchite, photo-bitho grade, gran. 100-b, dmea. Lil. works. b. Ammonium bifluoride, bgs., l., works. b. Ammonium bifluoride, bgs., l., works. b. Ammonium bifluoride, bgs., l., works. l. Ammonium bifluoride, bgs., l., works. l. Ammonium chioride, whita, tech. fine gran. bgs., cl., works. l. 1.31 - Ammonium citrate, dibealo, 250-b. dme. L.b. works. l. 0. Ammonium citrate, dibealo, 250-b. dme. L.b. works. l. 0. Ammonium didevides is, approx. 687%, 24,000 ibs. or mora b. 2.79 - Ammonium beptamolydes is, or yst., dms., 24,000 ibs. c. l.b. b. Ammonium ligalin, autifonsis, bub., L.b. Housiam, Ora ton Ammonium nitgalin, autifonsis, bub., L.b. Ammonium ligalin, autifonsis, bub., ammonium persulists, 225-b, dms., 24,000 ibs. or mora, b. 3.000 dms., l. l. ab. works b. Ammonium persulists, 225-b, dms., 24,000 ibs. or mora, b	ı				
bgs., cl. 100 bs. 25.00 - Ammonium bichromete, photo-diho grade, gran. 100-b. dme., 1.1. works. b. 2.00 - Ammonium bichromete, bps., l. 1. works. b. 70 - Ammonium bromide, dom. NF, gran., dms., cl., 1.1. (ab.), works. b. 1. 31 - Ammonium chioride, dmills, tech., fine gran., bgs., c. 1. gran., bgs., c. 1. gran., bgs., c. 1. gran., bgs., c. 1. gran. bgs.	H	dme., c.l., works 100 lbs.		-	
grade, gran. 100-lb. dmel. 1.1.1  Ammonium bifluoride, dga. 1.1.  works. b. 70  Ammonium bromide, dom. NF. gran.  dms. c.l. t.f. Lob. works. b. 1.31  Ammonium chroide, white, tech.  fine gran. bgs. c.l.  works. 100bs. 19.00  dme 1.0.b. works. b. 40  S3 Ammonium dinniybdate, approx.  6 69-8, 24,000 lbs. or more b. 5.48  Ammonium launi selfate, banks, Lob.  works. b. 1.79  Ammonium launi selfate, banks, Lob.  works. b. 1.79  Ammonium launi selfate, banks, Lob.  works. b. 1.79  Ammonium launi selfate, banks, Lob.  Ammonium launi selfate, banks, Lob.  works. b. 1.70  Ammonium launi selfate, banks, Lob.  Ammonium paraliste, 252-lb, dms.  24 (00 lbs. or more, f.ob.  works. b. 30.00  Ammonium paraliste, 225-lb, dms.  24 (00 lbs. or more, f.ob.  Ammonium paraliste, 125-lb, dms.  24 (00 lbs. or more, f.ob.  Ammonium selfate, liq, 40.44% tanks, lob.	11		25.00	-	Arylid, rod (see Nepthol, erylid red
Ammonium parties, ig. 2.00 - Ammonium promise, dom. NF. gran., driss. cl., Lf. (Lob. works . lb. Ammonium promise, dom. NF. gran., driss. cl., Lf. (Lob. works . lb. Ammonium fitnesses, white, tech. fine gran. bgs. cl., works lo. 0.00 - driss. discovered to the control cold USP, 100 k dwd. Ash black (see Benum sulfide). Ash black (see Be	ı				
Ammonium bifluoride, dom. NF. gran., dom. c.l. Li, Lob. works ib. 1.31 — Ammonium chorde, white, tech., fine gran., bgs. c.l., works. b. 1.31 — Market (Library Lob.) and the part of the	11		0.00		
Ammonium bromide, dom. NF. gran., driss. cl., Lf. Lob. works b. Ammonium midrate, dibeselo, 250-b. driss. cl. b. 40 .53 Ammonium midrate, dibeselo, 250-b. driss. cross. b. 40 .53 Ammonium midrate, dibeselo, 250-b. driss. cross. b. 40 .53 Ammonium directo, dribeselo, 250-b. driss. cl., Lf. works . b. 2.79 - driss. cl., Lf. works . b. 2.79 - driss. cl., Lf. works . dr. driss. cryst. driss. cross. driss. dri	11		2.00	-	
Ammonium bromide, com. Nr. gran., dms. c.l. Lt., Lob. works. b. 1.31 — Marmonium chrotde, white, tech., fine gran., bgs., c.l., works. b. 40 .53 Ammonium chrote, tieb. 40 .53 Ammonium chrotes, be. 2.79 — Marmonium dimolybdate, approx. 685-24,000 lbs. cronos. b. 5.48 — Ammonium heplamolybdate, cryst., dms., c.l., Lt., works, fr. equiad. b. 1.79 — Ammonium heplamolybdate, cryst., dms., c.l., Lt., works, fr. equiad. b. 1.79 — Ammonium heplamolybdate, cryst., dms., c.l., Lt., works, fr. equiad. b. 1.79 — Marmonium heplamolybdate, cryst., dms., c.l., Lt., works, fr. equiad. b. 1.79 — Marmonium heplamolybdate, cryst., dms., c.l., Lt., works, fr. equiad. b. 1.00 morks, fr. equiad. b. 1.20 morks, fr. equiad. b. 1.20 morks, fr. equiad. b. 1.20 morks, fr. equiad. ion, ferlitzer grade, 3355-k, bulk, S.E. dwd. morks, fr. equiad. ion, fr. equia	П		70	_	Aud Cornic acid. USP, 100 K
Ammonium ethoride, white, tech., fine gran., bgs., c.i., works. b. Ammonium ethoride, blaseic, 250-b. Ammonium ethoride, blaseic, blaseic, approx. 85-88 and ammonium ethoride, free, blaseic, approx. 85-88 and ammonium ethoride, blaseic, blaseic, approx. 85-89-8, 24,000 blas. (b.b. Ammonium leuryl suffata, tenka, l.b. Ammonium leuryl suffata, tenka, l.b. Ammonium leuryl suffata, tenka, l.b. 26 .32 ammonium nitre la, dom, terilizer greede, 33,5% N, bulk, S.E., dwd to 130.00 135.00 ammonium oraceles, tech., fine, gran. 30-b. dma, 11, l.a.b. works b. 1.42 1.68 ammonium penalborate provider 20c. perb, higher. Ammonium penalborate provider 20c. perb, higher. Ammonium penalborate provider 20c. perb, la, ligher. Ammonium suffata, lg, gran., bulk, c.f., works b56 .56 .56 .56 .56 .56 .56 .56 .56 .5	П		.,,	_	Ash, black (see Berum autlide)
Ammonium chiorida, white, tech, works bg. cl., works bc do b 40 53 Ammonium citrate, dibeele, 250-8b 40 53 Ammonium dimelybdate, approx. 65%, 2,000 lbs. or more . lb 5-48 Ammonium fluoborate, tech, offine cl., Li, worke, fr. equadd b 5-8	J		1.31	_	
Ammonium citrate, dibeaic, 29-80 dime. Lo.b. works. b. 5-48 dimensional bloomers, b. 5-48 dimensional bloomers, 120-10. See prox. 6-65%, 24,000 lbs. or more ib. 5-48 dimensional bloomers, 120-10. dimensional bloomers		Ammonium chloride, white, tech.,			Asphalt petroleum cutback, tank
Ammonium citrate, dibeaic, 29-80 dime. Lo.b. works. b. 5-48 dimensional bloomers, b. 5-48 dimensional bloomers, 120-10. See prox. 6-65%, 24,000 lbs. or more ib. 5-48 dimensional bloomers, 120-10. dimensional bloomers	-	fine grant, bgs., c.l.,			Coest. ,
Ammonium citrate, dibeaic, 29-80 dime. Lo.b. works. b. 5-48 dimensional bloomers, b. 5-48 dimensional bloomers, 120-10. See prox. 6-65%, 24,000 lbs. or more ib. 5-48 dimensional bloomers, 120-10. dimensional bloomers	_	works100bs.	19.00		emulsion, tenke, tenkwagon
Ammonium citrate, dibeaic, 29-80 dime. Lo.b. works. b. 5-48 dimensional bloomers, b. 5-48 dimensional bloomers, 120-10. See prox. 6-65%, 24,000 lbs. or more ib. 5-48 dimensional bloomers, 120-10. dimensional bloomers		USP, gran., dms	.40	.53	Coast
Ammonium dimolybdate, approx.  Ammonium fluoborate, tech, dms. C.I., LL, works, fr. equald. b. Ammonium heptamolybdate, cryst. dme. 24,000 lbs. f.o.b. works. b. Ammonium lignin, sulfonete, bulk, I.O.b. Hocketen, Ore. both Ammonium mitre is, dom., fertilizer grede, 33,5% N, bulk, S.E. divd. both Ammonium pentaborate gran. bg. C.I., works. b. Ammonium pentaborate gran. bg. C.I., works. b. Ammonium pentaborate gran. bg. Ammonium pentaborate gran. bg. Ammonium esticoliuoride, dris. cl., 11, works. bg., sams basis b. Ammonium sulficia, ig., gran., bulk, c.I. works. b. Ammonium sulficia, ig., gran., bulk, c.I. works. b. Ammonium sulficia, ig., gran., bulk, c.I. bgs. cl., LL, works. b. Ammonium sulficia, ig., 40-44% tanks, 100% basis, irt. equald. ton. Ammonium sulficia, ig., 40-44% tanks, bgs. cl., LL, works. b. Bosh, tanks, irt. equald. ton. Ammonium sulficia, ig., 40-44% tanks, bgs. cl., works. b. Ammonium sulficia, ig., 40-44% tanks, bgs. cl., LL, works. b. Bosh, tanks, irt. equald. ton. Ammonium sulficia, ig., 40-44% tanks, bgs. cl., works. b. Ammonium sulficia, ig., 40-44% tanks, bgs. cl., works. b. Bosh, tanks, irt. equald. ton. Ammonium sulficia, ig., 40-44% tanks, bgs. cl., works. b. Bosh, tanks, irt. equald. ton. Ammonium sulficia, ig., 40-44% tanks, bgs. cl., works. b. Bosh, tanks, irt. equald. ton. Ammonium sulficia, ig., 40-44% tanks, bgs. cl., works. b. Bosh, tanks, irt. equald. ton. Ammonium sulficia, ig., 40-44% tanks, bgs. cl., works. b. Bosh, tanks, irt. equald. ton. Ammonium sulficia, ig., 40-44% tanks, bgs. cl., works. b. Bosh, tanks, irt. equald. ton. Ammonium sulficia, ig., 40-44% tanks, bgs. cl., works. b. Bosh, tanks, irt. equald. ton. Ammonium sulficia, ig., 40-44% tanks, bgs. cl., works. b. Bosh, tanks, irt. equald. ton. Bosh, tanks, irt. equald. ton. B		Ammonium citrete, dioxeic, 250-10.			steam-relined, 40-300 penetr
Asmonium fluotoreite, 1ech., dine., cl., 1., 1., 29  Asmonium leptamolybde its, cryst., dine., 24,000 lbs., f.o.b., works.  Ammonium legian, sulfoneis, bulk, Lob., works.  Lob. Hooksam, Ore., lon Ammonium nitria, dom., fertilizer grede, 33,5% N, bulk, S.E., divd.  Ammonium oxalaie, tech., fine gran., 300-lb. dims., cl., 1,1, 1,0,0, works.  Ammonium peraulatic, 225-lb. dims., 24,000 lbs. or more, 1.0.b., works.  Ammonium peraulatic, 225-lb. dims., 24,000 lbs. or more, 1.0.b., works.  Ammonium peraulatic, 225-lb. dims., 24,000 lbs. or more, 1.0.b., works.  Ammonium peraulatic, 225-lb. dims., 24,000 lbs. or more, 1.0.b., works.  Ammonium peraulatic, 225-lb. dims., 24,000 lbs. or more, 1.0.b., works.  Ammonium peraulatic, 225-lb. dims., 24,000 lbs. or more, 1.0.b., works.  Ammonium sulfiste, lg., gran., bulk, c.I., works.  Ammonium sulfiste, lg., 40,44% tanks., 100% basis, fit. equeld., ton, 460.00  Ammonium thiooyaneis, lech., cryst., ton, 460.00  Ammonium thiooyaneis, lech., cryst., ton, 460.00  Ammonium thiooyaneis, lech., cryst., bls., c.I., ton, works.  Barium chiorke, forth, see Ammonium linicovariale). Ammonium thiooyaneis, lech., cryst., bls., c.I., ton, works.  Barium chiorke, forth, see Ammonium linicovariale). Ammonium sulfice, lg., 40,44% tanks., 100% basis, fit. equeld., ton, 460.00  Ammonium sulfice, lg., 40,44% tanks., 100% basis, fit. equeld., ton, 460.00  Ammonium sulfice, lg., 40,44% tanks., 100, 400.00  Ammonium sulfice, lg., 40,44% tanks., 100.00  Ammoni			2.79	-	
Ammonium heptamolybdate, cryst., drme., 24,000 lbs. 1.0b. Ammonium heptamolybdate, cryst., drme., 24,000 lbs. 1.0b. Ammonium lauryt saffata, tanks, 1.0b. works.			2 40		
c.l., Ll., works, frt. equald. D.  Ammonlum heptamolybdeis, cryst., dree., 24,000 lbs. 1.0.b. Ammonlum legran, sulfasta, tanks, l.o.b. works			5.45	-	Applrin, USP, cryet., powd.,
Ammonium heptamolybdate, cryst., drme. 24,000 lbs. 1.o.b. 5.57  Ammonium lauriy suffata, tanks, 1.o.b. 28 32  Ammonium lignin, sulfonete, bulk, 1.o.b. hooksim, Cre ton 72.00  Ammonium lignin, sulfonete, bulk, 1.o.b. hooksim, Cre ton 72.00  Ammonium ilgnin, sulfonete, bulk, 1.o.b. works ton 130.00 135.00  Ammonium calate, tech., fine. gran. 300-lb. dms. 11., 1.o.b. 1.42 1.68  Ammonium pentaborate powder 20c. parb. higher.  Ammonium persulfate, 225-lb. dms. 24,000 lbs. or more, 1.o.b. 5510. bge, sama basis bb. 5510. bge, sama bb. 5510. bge, sama basis bb. 5510. bge, sama bb. 5510. bge, sama basis			1 70	_	
dme. 24,000 ibs. 1.0.b. 6.57 - Mammonium leuryl suffets, tenks, I.o.b. works	- 1		1.70	_	
Ammonium Buryl suffata, tanks, Lo.b. works. b. 28 .32 .32 .32 .32 .33 .36% .33 .36% .34 .35 .35 .35 .35 .35 .35 .35 .35 .35 .35	_				lb.dm,c.l,l.o.b
Ammonium lignin, sulfonete, bulk, Lo.b. Hocksim, Ore	1	works	5.57	_	
Ammonium tignin, suifonete, bulk, Lo.b. Hoquism, Ore ton 72.00 Ammonium Intreia, dom, fertilizer grede, 33.5% N, bulk, S.E., divid ton 130.00 135.00 Ammonium pentaborete gran. bgs., cl., works b. 1.42 1.68 Ammonium pentaborete gran. bgs., cl., works b 75 Ammonium pentaborete powder 20c. per lb. higher. Ammonium pentaborete powder 20c. per lb. higher. Ammonium pentaborete powder 20c. per lb. higher. Ammonium esticolluoride, dms. cl., 11, works b 56 b. bge, sams basis bb 56 b. bge, sams basis bb 56 b. bge, sams basis bb 58½ ammonium esticolluoride, dms. cl., 11, works bb 3034 ammonium suificia, lic, 40.44% tanks, 100% basis, frt. equald 100% basis, frt. equald 460.00 Ammonium thiocyanide, lech., crysf., bgs., cl., works b 1.02 ammonium thiocyanide, lech., crysf., bgs., cl., works b	ı	Ammonium lauryl suffata, tanks, I.o.b.			Capiett agueld a bint identical
Ammonium rigani, eurinote is, buik, Lo.b. Hoquiem, Ore ton Ammonium ritreta, dom., fertilizer grede, 33.5% N, buik, S.E., divd		WORKS	.26	.32	free N V Phile Meter
Ammonium nitrate, dom., fertilizer grede, 33.5% N, bulk, S.E. divid.  Ammonium cxalaie, tech., fine gran., 300-lb, dms., L1, Lo.b., works.  Ammonium pentaborate gran., bgs., c.I., works.  Ammonium pentaborate powder 20c. per ib, higher.  Ammonium pensuliate, 225-b, dms., 24, d00 lbs. or more, f.o.b., works.  Ammonium phosphate (see Di- and monoammonium phosphates).  Ammonium sulfete, ig. gran., bulk, c.I., works.  Ammonium sulfete, ig. gran., bulk, c.I., works.  I.D. 3034  Ammonium sulfete, ig. gran., bulk, c.I., works.  I.D. 3034  Ammonium sulfete, ig. gran., bulk, c.I., works.  I.D. 3034  Ammonium sulfete, ig. gran., bulk, c.I., works.  I.D. 3034  Ammonium sulfide, ilq., 40-44% tanks.  I.D. 3000  Ammonium sulfide, ilq., 40-44% tanks.  I.D. 4000  Ammonium sulfide, ilq., 40-44% tanks.  I.D. 4000  Ammonium sulfide, ilq., 40-44% tanks.  I.D. 50%, fanks, frt. equeld., son., 480.00  Ammonium sulfide, ilq., 40-44% tanks.  I.D. 50%, fanks, frt. equeld., son., 480.00  Ammonium sulfide, ilq., 40-44% tanks.  I.D. 50%, fanks, frt. equeld., son., 480.00  Ammonium sulfide, ilq., 40-44% tanks.  I.D. 50%, fanks, frt. equeld., son., 480.00  Ammonium sulfide, ilq., 40-44% tanks.  I.D. 50%, fanks, frt. equeld., son., 480.00  Ammonium sulfide, ilq., 40-44% tanks.  I.D. 50%, fanks, frt. equeld., son., 480.00  Ammonium sulfide, ilq., 40-44% tanks.  I.D. 50%, fanks, frt. equeld., son., 480.00  Ammonium sulfide, ilq., 40-44% tanks.  I.D. 50%, fanks, frt. equeld., son., 480.00  Ammonium sulfide, ilq., 40-44% tanks.  I.D. 50%, fanks, frt. equeld., son., 480.00  Ammonium sulfide, ilq., 40-44% tanks.  I.D. 50%, fanks, frt. equeld., son., 480.00  Ammonium sulfide, ilq., 40-44% tanks.  I.D. 50%, fanks, frt. equeld., son., 480.00  Ammonium sulfide, ilq., 40-44% tanks.  I.D. 50%, fanks, frt. equeld., son., 480.00  Ammonium sulfide, ilq., 40-44% tanks.  I.D. 50%, fanks, frt. equeld., son., 480.00  Ammonium sulfide, ilq., 40-44% tanks.  I.D. 50%, fanks, frt. equeld., son., 50%, 60%, 60.00  Barilla Roberta J. Sp., 50%, 60%, 60.00  Barilla Robe		Ammonium ligain, sultoneta, bulk,			
grade, 33.5% N, bulk, S.E., divid	- 1	I.o.b. Hoquiam, Ore Ion	72.00	-	
Ammonium oxaleie, tech., fine. gran. 300-lb. dma., 1.I., I.o.b. works	- 1	Aminunium nitreta, dom., tertiazer			Avocado off, dms
Ammonium oxalaie, tech., fine. gran. 300-lb., dma., 1.l., 1.b.b. works lb. 1.42 1.68  Ammonium pentaborete gran. bgs., c.l., works lb. 75  Ammonium pentaborete powder 20c., per lb. higher.  Ammonium pensuliste, 225-lb. dms., 24,000 lbs. or more, f.o.b. works lb	1	died as on 14, bar, o.c.	120.00	125 00	Axelaic ecid, tech., 50-lb. bgs., t.
Ammonium pentaborete gran. bga., c.l., works. b. 75 Ammonium pentaborete powder 20c. per lb. higher. Ammonium pentaborete powder 20c. per lb. higher. Ammonium pensullate, 225-lb, dms., 24, d00 lbs. or more, f.o.b. works. lb58½. Ammonium atticolluorida, dms. c.l., 11., works. lb30¾ Ammonium attifete, ig. gran., bulk, c.l., works. lb30¾ Ammonium attifete, ig. gran., bulk, c.l., works. lb30¾ Ammonium autifete, ig. gran., bulk, c.l., works. lb30¾ Ammonium autifete, ig. gran., bulk, c.l., works. lon 60.00 70.00 lach, bga., c.l., i.l., works lon 60.00 70.00 lach, bga., c.l., i.l., works lon 109.00 120.00 Ammonium autifete, ig., 40-44½ tanks, 100% basis, frt. equeld, ton. 460.00 Ammonium thiocyanate, lech., crysf., bga., ol., works lb. 1.02 - tech soin. 50%, fanks, frt. equeld, lb93 Ammonium thiocyanate, lech., crysf., bga., ol., works lb33 Ammonium thiocyanate, soin., bulk, c.l., works lb33 Ammonium thiocyanate, soin., bl57 Ammonium thiocyanate, soin50 Ammon		Ammonium exalate tech fine eren	130.00	130.00	divd.,
Ammonium pentaborate gran. bgs., c.l., works. b75 — Ammonium pentaborate powder 20c. per ib. higher.  Selva — Ammonium phosphete (see Di- and monoammonium phosphetes).  Ammonium alicofluorida, dms. c.l., 11., works. ib30% — Ammonium sulfida, ig., 40-44% tanks, 100% basis, frt. equeldton. 460.00 — Ammonium sulfida, ig., 40-44% tanks, 100% basis, frt. equeldton. 460.00 — Ammonium sulfida, ig., 40-44% tanks, 100% basis, frt. equeldton. 460.00 — Ammonium thiocyanate, tech. crysf., bgs., o.l., works ib. 1.02 — tech soln. 50%, fanks, frt. equeld b83 — Ammonium zirconyl carbonate, soln. bulk b83 — Ammonium zirconyl carbonate, soln. bulk b		300-lb. dma. 11. 1.a.b.			Azo orange, bbla., divd.,
Ammonium pentaborate gran. bgs., c.l., works		worksb.	1.42	1.68	Azo yellow, 10 d. bgs., divd.
Ammonium pentaboreta powder 20c. per lb. higher.  Ammonium persuliata, 225-ib., dms, 24,000 lbs. or more, 1.0.b. works	•	Ammonium pentaborete gran, bgs.,			Aza Guellow plament has same
Ammonium persuliste, 225-ib, dms, 24,000 ibs. or more, 1.0.b		c.l., works	.75	-	
Ammonium persuitate, 225-lb, dms, 24,000 lbs, or more, 1.0.b. works lb, .564  55-lb, bge, same beals lb, .589; Ammonium phosphates).  Ammonium efficofluorida, dms. c.l., 1.l., works lb, .3034  Ammonium efficofluorida, dms. c.l., 1.l., works lb, .3034  Ammonium suifate, ig. gran., bulk, c.l., works lon 80.00 60.00  std., cornii, bulk, 1.o.b, works lon 109.00 120.00  Ammonium suifida, liq., 40-44% tanks, 100% basis, trt. equald., ton 109.00 120.00  Ammonium suifida, liq., 40-44% tanks, 100% basis, trt. equald., lb, 460.00  Ammonium thiocyanate, lech., crysf., bgs, c.l., for b. more reproduced by the color, crysf., lb,		Ammonium pentaborata powder 20c.			0.5
24, 000 ibs. or more, f.o.b. works.  Ammorium phosphete (see Di- and monoammonium phosphetes).  Ammorium phosphete (see Di- and monoammonium phosphetes).  Ammorium suffete, ig. gran., bulk, c.f., works.  Ib. 3034  Ammorium suffete, ig. gran., bulk, c.f., works.  Ion 80.00 60.00  sid., cornil., bulk, f.o.b. works.  Ion 80.00 70.00  sid., cornil., bulk, f.o.b. works.  Ion 80.00 70.00  sid., cornil., bulk, f.o.b. works.  Ion 109.00 120.00  Ammorium suffide, ilq., 40-44% tanks, 100% basis, fri. equald.  Ion 40.00  Ammorium sufficeyenide, tech., (see Ammonium thiocyanale).  Ammorium thiocyanate, tech., (see Ammonium thiocyanale).  Ammorium thiosulfate, photographic, Both, tanks, f.o.b. works.  Both, tanks, f.o.b. works.  Ib83  Ammorium zicconyl carbonate, soin., bulk.  Amyl acetate, primary mixed isomers, tanks, divd.  Ib57  Amyl clonary grixed forms.  Ib57  Amyl clonary grixed isomers, tanks, trt. sid.  Ib40½  Amyl chrims oli, drins.  Amyl chrims oli, drins.  Ib306  Angelica root oil, bota.  Kilo 700.00  Angelica root oil, bota.  Kilo 700.00  Angelica root oil, bota.  Kilo 700.00  Bertital, NF, 50-kilo drins, divd.  Bertium, NF, 50-kilo drins, divd.  Bertital, NF, 50-kilo drins, divd.  Be					
55-lb. bge., same basis		Ammonium persullata, 225-lb, dms,			
Ammonium atticofluorida, dms. c.l., 1.l., works ib 30% ib 30% ib 30% ib i		24,000 los. or more, 1.0.0.	ra.		
Ammonium suffete, Ig. gran., bulk, c.l., works ton 80.00 60.00 std., comi., bulk, f.o.b. works ton 80.00 70.00 uch., bga., c.l., t.f., works ton 109.00 120.00 Ammonium suffete, Ig., gran., bulk, c.l., sea Ammonium thiocyanide, Ig., 40-44% tanks, 100% basis, frt. equaldton 460.00 Ammonium thiocyanide, Ig., 40-44% tanks, bga., c.l., works ib. 1.02 Ig. isch soin., 50%, fanks, frt. equaldto83 Ammonium thiocyanide, Ig., 40-42 Ig. isch soin., 50%, fanks, frt. equaldto ib83 Ammonium thiocyanide, Ig., ibto.		55.In has some back th		_	i <b>188</b>
Ammonium etitooliuoride, dms. c.l., 1.l., works		Ammortum phosphete (see Di. sod o			
Ammonium eticofluorida, dms. c.l., 1.l., works. ib30% - works			AND PORT IN	Manie Mina-	
Ammonium sulfete, Ig. gran., bulk, c.l., works. ton 80.00 60.00 std., comi., bulk, f.o.b. works ton 80.00 70.00 tech., bga., c.l., t.f., works ton 109.00 120.00 Ammonium sulfice, Ilq., 40.44% tanks, 100% beais, frt. equald. ton. 460.00 Ammonium sulfocyenide, tech., cse Ammonium thiocyenafe). Ammonium thiocyenafe, tech., crysf., b. 1.02 stack soin., 50%, fanks, frt. equald. b83 ammonium thiocyenafe, lech., crysf., b93 ammonium tricosulfate, photographic, 80%, tenks, f.o.b. works ib13 ammonium tricosulfate, photographic, soin., bulk13 ammonium tricosulfate, photographic, bulk13 ammonium triconyl carbonate, soin., b72 ammonium triconyl carbonate, soin., soin triconyl carbonate,					
Ammonium sulfete, kg. gran., bulk, c.f., works. ton 80.00 80.00 grach, bge., c.l., Lf., works. ton 90.00 70.00 grach, bge., c.l., Lf., works. ton 109.00 120.00 Ammonium sulfide, liq., 40.44% tanks, 100% basis, frt. equeid., ton. 480.00 Ammonium sulfocyanide, tech., csea Ammonium Phlocyanale). Ammonium thiocyanide, tech., crysf., bgs., o.l., works. bb. 1.02 tach soln., 50%, fanks, frt. equeid., bb. 1.02 unbleachod, oxtra-fino, pi grado, c.l., f.o.b. works. bb. 1.3 Ammonium thiosulfate, photographic, 60%, tanks, (.o.b., works. bb. 1.3 Ammonium zirconyl oarbonate, soln., bulk. bl72 annyl acetate, primary mixed isomers, tanks, divd. bb57 Amyl clonamio sidehyde, dme. bb. 2.36 2.50 plati-Amylphenol, bulk, works. bb91 1.03 Amyris oil, dms. bb58 Anethole, tech., dms. kilo 10.20 USP, dms. bb. 3.66 4.60 Angelica root oil, bota. kilo 700.00 Angelica root oil, bota. kilo 700.00 Angelica root oil, bota. kilo 700.00 Taking, lanks, f.o.b. bb53 3.65 4.60 Angelica root oil, bota. kilo 700.00 Taking, lanks, f.o.b. bb53 3.65 4.60 Bertum nitrain. 100.1b. base. 100.00 Taking, lanks, f.o.b. bb50 taki		workslb.	.304	4 -	Recitracia LICO ace starile esta
sid., cornil., bulk, f.o.b. works bon 90.00 70.00 tech., bge., c.l., Lf., works ton 109.00 120.00 Ammonium sulfide, liq., 40.44% tanks, 100% beasis, frt. equeled., ton. 480.00 Ammonium sulfocyanide, tech., (see Ammonium Phiocyanale). Ammonium thiocyanale, tech., crysf., bgs., o.l., works bgs., cl., f.o.b. works bgs., ol., works bgs., cl., f.o.b. works bulk. bl83 Ammonium thiocyanale, tech., crysf., bl93 Ammonium thiocyanale, tech., crysf., bl93 Ammonium triconyl carbonate, soin., bulk. bl13 Ammonium zirconyl carbonate, soin., bulk. bl72 banks, divd. bl72 banks, divd. bl72 banks, divd. bl57 banks, divd50 banks, divd. bl57 banks, divd50 banks, di		Ammonium suifete, ig. gran., bulk, c.f.,			
static, bega, c.l., t.l., works 100 109.00 120.00 Ammonium sulfide, liq., 40-44% tanks, 100% besis, frt. equeld., 1on. 460.00 Ammonium thiocyanate, tech., crysf., bgs., c.l., f.o.b., works 10. 1.02 isch soln., 50%, fanks, frt. equeld., 1b83 Ammonium thiosulfate, photographic, 60%, tenks, f.o.b., works 1b13 Ammonium tricouly carbonate, soln., bulk., 1b72 Amyl acetate, primary mixed isomers, tanks, divd1b57 Amyl cloahol, primary mixed isomers, tanks, divd1b57 Amyl cloahol, primary mixed isomers, tanks, frt. sild1b235 Amyl cloahol, primary mixed isomers, 1sinks, frt. sild1b235 Amyl cloahol, primary mixed isomers, 1sinks, frt. sild1b235 Amyl cloahol, primary mixed isomers, 1sinks, frt. sild1b12.25 Anglicali, dires1b365 Angelica root oil, bots810 USP, dms1b366 Angelica root oil, bots807 Angelica root oil, b		works, ton			
Ammonium autificia, liq., 40.44% tanks, 100% basis, frt. equaldton. 460.00  Ammonium thicovariade, tech., case Ammonium thicovariate).  Ammonium thicovariade, tech., crysf., bgs., cl., co.b., crysf., bgs., cl., works		BIO., COTTI., BUIK, T.O.D., WORKS ION			
Ammonium suitocyanide, tech. (see Ammonium thiocyanale). Ammonium thiocyanide, tech. (see Ammonium thiocyanale). Ammonium thiocyanide, tech. (see Ammonium thiocyanale).  July 100 100 100 100 100 100 100 100 100 10		Acomorphics cultide lies 40.44e/ tracks	109.00	120.00	divd
Ammonium sullocyanide, tech, (see Ammonium thiocyanafe).  Ammonium thiocyanafe, tech, crysf., bgs., ol., works bgs., ol., works bb. 1.02  tech soin. 50%, fanks, (rt. equeld., bb83  Ammonium thiosuliate, photographic, 60%, tenks, (.o.b. works ib13  Ammonium zicconyl carbonafe, soin., bb72  Amyl acetate, primary mixed isomers, tanks, divd. ib57  Amyl clonary mixed isomers, tanks, trt. sid. ib40½  Amyl clonary sidehyde, dme. ib235  Amyl clonary sidehyde, dme. ib91  Amyl clonary sidehyde, dme. ib91  Amyl clonary sidehyde, dme. ib91  Amyl clonary sidehyde, dme. ib93  Barium chlordo, oxira-fino, ple93  Barium carboneto, oxira-fino, ple93  Amyl clonary sidehyd93  Barium carboneto, oxira-fino, ple93  Barium carboneto, oxira-fino, ple93  Barium c		אווווסויטים ווקי, שטיישים אוווא מוויטיווויא אוויסייוויא אוויסיייוויא אוויסייוויא אייסייוויא אוויסייוויא אייסייוויא אוויסייוויא אייסייוויא אייסיייייא אייסיייייייייי	480 00		warno, diy-ord , Soulhein, on
Ammonium thiopyanate, tech. cryst. bgs., o.l., works bb. 1.02 bgs., o.l., works bb. 1.02 bgs., o.l., works bb. 1.02 bgs., o.l., works bb. 1.03 bgs., o.l., works bb. 1.03 bgs., o.l., works bb. 1.03 bgs., earno basis. photographic, o.l., co.b. works bb. 1.03 bgs., earno basis. photographic, o.l., co.b. works bb. 1.03 bgs., earno basis. photographic, o.l., co.b. works bb. 1.03 bgs., earno basis. photographic, o.l., co.b. works bb. 1.03 bgs., earno basis. photographic, o.l., co.b. dins. din. kole, works bb. 1.03 bgs., earno basis. photographic, o.l., co.b. dins. din. kole, works bb. 1.03 bgs., earno basis. photographic, o.l., co.b. dins. din. kole, works bb. 1.03 bgs., earno basis. photographic, o.l., co.b. dins. din. kole, works basis. earno bloom olicordo, puill, o.yest. dins., works bb. 1.03 bgs., earno basis. co.b. bgs., earno basis. co.b. bgs., earno basis. photographic, o.l., co.b. bgs., ear		Ammonium sultocomide tech rese Am	modum i	historian fal	coarea, bgs., c.l., f.o b. m
bgs, cl., works b. 1,02  isch soln. 50%, fanks, frt. equald. bb83  Ammonium thiosuliate, photographic, 80%, tenks, f.o.b. works ib13  Ammonium zicconyl carbonate, soln. bb67  Amyl acstate, primary mixed isomers, tanks, dvd. bb57  Amyl elochol, primary mixed leomers, tanks, frt. elid. bb57  Amyl chnamic sideltyde, dme. ib236  Amylichnamic sideltyde, dme. ib91  Amylichnamic sideltyde, dme. ib93  Amylichnamic sideltyde, dme.		Ammonium thiographia, lach cryst.	inioacut t	moration al	
isch soln., 50%, fanks, frt. equald b		bas. o.l., works	1.02	-	1.0.0. WORKS
Armonium thiosulitate, photographic, 60%, tanks, (.o.b. works . ib. 1.3 - bulk		tech soln., 50%, fanks, (rt.			unbleached, extra-mo, p
Ammonium zirconyl oarbonate, soln., bulk		equardh	.83	-	
Ammoration 2rconyl carbonate, soin. busk  Ib. 72  Amyl acetate, primary mixed isomers, tarrics, divd. ib57  Amyl alcohol, primary mixed isomers, tarrics, firt. alid. ib40½  Amyl cinnamic sidehyde, dine. ib40½  Amyl cinnamic sidehyde, dine. ib55  Amyl cinnamic sidehyde, dine. ib51  Amyl cinnamic sidehyde, dine. ib52  Amyl cinnamic sidehyde, dine. ib50  Esrium chlorido, 100-lb. dins61  Barium chlorido, 100-lb. dins61  Barium chlorido, 100-lb. dins61  Barium chlorido, 100-lb. dins61  Barium chlorido, 100-lb. dins61  Cotal cinnamic sidehyde, dins62  Cot		Ammonium thiosultate, photographic,			
Amyl acatate, primary mixed isomers, tanks, divd. bb57  Amyl acatate, primary mixed isomers, tanks, divd. bb57  Amyl acatate, primary mixed isomers, tanks, frt. stid. bb57  Amyl acatate, primary mixed isomers, tanks, frt. stid. bb57  Amyl acatate, primary mixed isomers, tanks, frt. stid. bb40½  Amyl acatate, primary mixed isomers, ib57  Barium chloride, foch. crysl. bg works8  Barium chloride, foch. crysl. bg works9  College of the crysl. bg works9  College of the crysl. bg work		BUT tanks, (.o.b. works lb.	.13	-	
Amyl acetate, primary mixed isomers, tanks, divd ib					photogrado, bgs., samo ba
tanks, divd ib			./2	-	
Amyl elochol, primary mixed learners, tanks, frt. elid			67	_	
Amyl chnamic sidehyde, dme. lb. 2.36 2.50 p-left-Amylchenol, bulk, worke lb81 1.03 Amyla oli, dms		Amyl alcohol, primary mixed learning	.07	_	Benum cryotice, roch., cryst., bg
Amylickmarriko sidektyde, dme	٠	lanks, Irt. alid b.	.40	V2 -	Bright drame at asme had
Deliti-Amytichenol, bulk, worke   D.   81   1.03   Amyria oil, dires   Delitichen   11.50   12.25   Bertum monohydroto, 56-lb. bp   10.20   USP, dims   USP, dim		Amyl chnamic sidehyde, dme ib.	2.36		Berium oldorido, puelle overt
Amyris oil, dires		p-lart-Artiylphenol, bulk, works b.	81	1.03	dima. works
Angelica root di, bota		Anytholo toris	11.50	12.25	Berlum monohydroto, 56-lb. bn
Angelica root di, bota		Anethore, tech., dris	10.20	-	[.L.f.o.b. works
Antine, lanks, f.o.b		Angeling root all hate	3.06	4.60	ociehydreie, crysi., bijs.,
Anisa oli, dme		Antine tenks to b		-	basie 1
, WORKS		Anisa oil, dma		.361/2	Benum nitreto, 100-10. bgs
			11.70	-	WURD
	,		-	سيسب	
	_				

	165 00	170.00	dms .t.l .wn/kslb.	3.02	1	Berum suffide (olsck ash), dms., c.l.,	~~ ~~
10n St 10n	60.00	85.00	Antinany motal bulk of names in	1.35	139		60.00 .75
yd. basis,			Antimony exide, high-bott bgs . c L. frt.			Basi Egyptian	.86
of Flock-			Antimony trichloride, nebyt, solid.	1.40	1.50	French	90.00
	260 00	315 00	dos 11 works	3.60	1		46.00
onia, equeor	(15).		Apomerphinu hydrochloride, NF, bots.	4.00			<b>62.00</b>
Bda, bgs.,	28 60	_	Am.	15.00	. 1		
. , 100/be monium chi			Apricot kernetoil, diris	2.05	· 1		228.28
dma., c.l.	01.40 40	,-	Arabic gum, powd .bbisb.	1.85	25		10.60
lb.	.90	-	USP grade	2.00		A LAP SIE READING OFFINAL LA L	2.70
r 15c, per lb	. higher.		Aromotic patroloum salvents (see	Solvens	125	Seperywax bgs	~
00-lb. ldb.			petroleum, orginatic)	TOI MAILE	Calbully .	broks, 100- lb. ctris lb.	3.10
. 100 bs.	28.00	-	Arsonic, crude (see Arsonieus trioxide).		i	IQ 100-lb. ctns IQ.	3.05
, 100 lbs.	25.00	-	Arylid, red (see Nepthel, erylid red)			with higher 100-23, C(03 10.	3.00
noto-liho			Arsonious trioxido, 99%, bulk, c.t.			index elahe 100-10, CIDS IQ.	2.65
dme., l.1.l.	2.00		f.o.b. warohouseb.	.42	All	periorie, dom., C.I. Dage, I.O.D.	
b.	2.00	-	Asbeeline (see Taic, librous). Accorbic cold. USP, 100 kilos.		-	west	43.50
gs., 1.1.,	.70	-	divdklo	8.00	10.50	averaldaturia NF, dM8	1.25 .73
NF, gran.			Ash, black (see Berrum euflide).	2.00	10-20	wh.dms.c1.t1	.73
works . lb.	1.31	_	Asphalt gisonile, (see Gisonile).			Prices are 40. per lb. higher West of	
ta, tech.,			Asphelt petroleum cutback, tanks, E.			the Rockles.	
., C.l.,			Coest	-88	- 1	Berzere, indust, or mitration, barges, f.o.b Beton Rouge, Le	.60
100lbs.	19.00		emulsion, tenks, tenkwagens, E.			Beytown, Tex	.60
lb.	.40	.53	Coastgal.	.68	- (	Represent Tex	.80
c, 250-lb.	0.70		steam-refined, 40-300 penetration, tanks, tankwegonton	170.00		Calenaburg, Ky gal.	.80
,b.	2.79	-	steeproofing grede, bulk tankwag-	170.00	- 1	Chicago district	.80
approx.	5.48		onion	175.00		Chocolate Bayou, Texgal.	.60
mora .ID. h., dma.,	3.49	_	Aspirin, USP, cryst., powd., 250-			Clerion, Pa	.60
guald fb.	1.79	-	ib.dms., c.l., f.o.blb.	1.95	-	Corpus Christi, Tax	.80
le, cryst.,	11.7		10% sterch grenulation, white, 250-			Deer Park, Tex	.76
1.a.b.			lb.dm, c.l , l.o.blb	1.97	•	Houston district, spotgal.	.80
lb.	5.57	_	15% starch granulation, white, same	260		Bergare herachloride, 69% gamme ison	
nks, I.o.b.			Freight equald, shipt, identical quentit	2.80	ndurinas (	Berzidre prange, powd., bga., divd. lb.	4.90
<b>D</b> .	.26	.32	from N.Y., Phile , Midland, M	ch. Chic	Ein cos	is containers, divd b.	3.36
ole, bulk,	70.00		Louis.			Bereidneyellow, AAA, bgs., dlvd lb.	5.80
fertilizer	72.00	-	Atropine sulfeta, USP, bols oz.	10.00	11.00	AAOA bos, divd	7.35
Mik, S.E.			Avocado oil, dms	4,00	456	AAO1, bgs., dlvd	5.05
ton	130.00	135.00	Axelaic ecid, tech., 50-lb. bgs., Li., c.l.,			Berzocine, USP, drns., 1,000 kg.101s,	10.00
fine. gran,		100.00	divdb.	1.23		f.o.b.,workskg.	12.5
, I.a.b.			Azo orange, bbia., divd	4.00	-	Berzothydropyrone, dma	12.0
b.	1.42	1.68	Rockies	4.40		workslb.	.53
ree has			Thomas				
ran, boa.,			Azo Guellow plament, bos., same ba-			USP cryst., dms., ton lots same ba-	
lb.	.75	-	Azo Gyellow pigment, bgs., same ba-	2.45		USPoyat, dms., ton lots same ba-	t.7
	.75	-	Azo Gyellow pigment, bgs., seme ba- sis	2.45		USP cyst., dms., ton lots asme ba- sia lb. Benzolngum, Sumatra, cs lb.	t.7;
wder 20c.	.75	-	Azo Gyellow pigment, bgs., same ba-	2.45		USPCYNL, dms., ton lots some ba- sia	1.8
owder 20c. 5-lb, dms,	.75	-	Azo Gyellow pigment, bgs., same ba-	2.45		USP cryst, dats, ton lots as me ba- tis b. Benzohgun, Sumatra, cs. b. Benzophenena, N.F., 1,000 lbe. or more, Lub. tb.	3.5
owder 20c. 5-lb. dms. ore, f.o.b.			Azo Gyellow pigment, bgs., same ba-	2.45		USP cyst., dms., toniuts asme ba- sis b. Benzopeno, Sunatra, cs. b. Benzoptecona, N.F., 1,000 libe. or more, Lo.b. b. b. N.F., L000 t/bo or more, Lo.b. kg.	1.8
5-lb, dms, ore, f.o.b.	.75 .66	- 4 -	Azo Gyellow pigment, bgs., same ba-	2.45	<u></u>	USP cryst, dms., ton lots as me ba- sis	3.5 7.4
5-lb, dms, ore, f.o.b.	.66 .581		Azo Gyellow pigment, bgs., same ba-	2.45		USP cryst, dms., ton lots as me be- tis b. Benzohgum, Sumatra, cs. b. Benzohgenena, N.F., 1,000 libe. or more, Lo.b. bb. N.F., 1,000 libe. or more, Lo.b. kg. tach, 1,000 libes or more, Lo.b. kg. works. kes.	3.5 7.4
5-lb, dms, ore, f.o.b.	.66 .581		Azo Gyellow pigment, bgs., same ba-	2.45		USP cryst, dms., toniuts as me ba- tis	3.5 7.4
5-lb, drns, ore, f.o.b. b. DI- and n	.58 .583. mmaonor	onium phos-	Azo Gyellow pigment, bgs., same ba-	2.45	<u></u>	USP cryst, dms., toniuts as me ba- tis	3.5 7.4
	.66 .581	onium phos-	Azo Gyellow pigment, bgs., seme besis		<u></u>	USP cyst., dms., ton lots as me ba- sis b. Benzongun, Sumatra, ca. b. Benzonsecena, N.F., 1,000 libe. or more, Lo.b. b. kg. tsch, 1,000 kilos or more, lo.b. kgs. tsch, 1,000 kilos or more, lo.b. works. kgs. 22. Benzohlarji disulfide (see Merces fide). Benzolfazala, fiske, drns., 1,000 libs. or more, Lo.b. works. b.	3.5 7.4
ib. oveder 20c. 5-lb. drms. ore, f.o.b. lb. b. e Di- and n ms. c.l., 1.l., lb. , bulk, c.f.,	.66 .583 menoamm	onium phos-	Becliracin, USP, non-sterile, and billion	6.30	8.80	USP cyst., dms., ton lots as me ba- sis b. Berzongum, Sumatra, cs. b. Berzongum, Sumatra, cs. b. Berzongum, Sumatra, cs. b. Berzongum, N.F., 1,000 libe. or more, l.o.b. kg. tsch, 1,000 kilos or more, l.o.b. kgs. tsch, 1,000 kilos or more, l.o.b. kgs. 2,2-Berzonthiaryl disulfide (see Mercey Ride). Berzonthiaryl disulfide (see Mercey Ride). Berzontezele, fiske, dms., 1,000 lbs. or more, l.o.b. works. b. powd, dms., 1,000 lbs. or more.	1.8 3.5 7.4 4.3 ptoban
ib. oveder 20c. 5-lb. dms. ore, f.o.b. lb. Bb. e Di- and n ms. c.l., 11., lb. ib.	88. 881. mmaonon 90.00	onium phos- 4 - 60.00	Azo Gyellow pigment, bgs., seme besis		8.80	USP cryst, dms., ton lots as me ba- tis b.  Benzolegum, Sumatra, cs. b. Benzolecona, N.F., 1,000 libe. or more, Lo.b. lib. NF, 1,000 kfos or more, Lo.b. kg. tsch, 1,000 kfos or more, lo.b. works. kgs. 22, Benzoliazyi disulfide (see Merces) fide). Benzoliazola, fiska, dms., 1,000 libs. or more, Lo.b. works. lb. powd., dms., 1,000 bs. or more, same basis.	3.5i 7.4 4.3 ptoban
ib. weder 20c. 5-lb. dms. ore, f.o.b	.569. .589. .309. .309. .309. .309.	60.00 70.00	Becliracin, USP, non-sterile, and billion units Berbital, NF, 50-kilo dnis, divd kilo Barbital-NF, 50-kilo dnis, dvd kilo	6.30 22.50	180	USP cyst., dms., tonicis asme ba- sis is b. Benzopiecona, N.F., 1,000 libe. or more, Lo.b lib. NF, I,000 kilos or more, Lo.b kg. tach, 1,000 kilos or more, lab. works kgs. 2.2-Benzofianji disulfide (see Merces Ide). Benzofianji disulfide (see Merces Ide). or more, Lo.b. works lb. powd., dms., 1,000 lbs. or more. same basis proto-grade, dms., 1,000 lbs. or	1.60 3.5 7.4 4.3 ptoban 9.1
	88. 881. mmaonon 90.00	onium phos- 4 - 60.00	Beckracin, USP, non-sterile, eng billion unite or more million units Berbitat, NF, 50-kilo dns., divd kilo Barbitat-sadium, NF, 50-kilo dns., divd kilo dns., divd kilo dns., divd kilo dns., divd kilo dns.	6.30 22.50	8.80	USP cyst., dms., ton lots as me ba- sis b.  Berzongum, Sumatura, cs. b. Berzongum, Sumatura, cs. b. Berzongum, Sumatura, cs. b. Berzongum, N.F., 1,000 libe. or more, l.o.b. kg. tsch, 1,000 kilos or more, l.o.b. kgs. tsch, 1,000 kilos or more, l.o.b. kgs. 2,2-Berzonthiaryl disulfide (see Mercey Ride). Berzonthiaryl disulfide (see Mercey Ride). Berzonthiaryl disulfide (see Mercey Ride). Downd, dres., 1,000 lbs. or more. same basis. lb. photo-grade, dres., 1,000 lbs. or more. Thore. seme basis.	1.8 3.5 7.4 4.3 ptoban
b	.56 .583 .303 .303 .303 .303 .303 .303 .303 .3	60.00 70.00	Beckracin, USP, non-sterile, one billion unite or more million units Berbital, NF, 50-kilo dnis., divd kilo Berbital-sodium, NF, 50-kilo dns. divd kilo Berito, divy Southern, off-color.	6.30 22.50 23.00	888	USP cyst., dms., tonius asme ba- sis is b. Barachgun, Sumatra, cs. b. Benzeptecena, N.F., 1,000 libe. or more, Lo.b. ib. NF., 1,000 tibe or more, Lo.b. kg. tach, 1,000 tibes or more, lo.b. kgs. 2.2-Barachiaryl disulfide (see Merces) lide; Benzulfazola, lake, circs., 1,000 libs. or more, 1,000 libs. or more, combinational more, circ., 1,000 libs. or more, same basis. lb. photograde, dms., 1,000 libs. or more, same basis. lb. Benzulfazola, dms., 1,000 libs. or more, same basis. lb. Benzulfazola, fins., 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	1.60 3.5 7.4 4.3 ptoban 9.1 9.2 9.8
b. owder 20c. 5-lb. dms. ore, f.o.b. lb. lb. lb. lb. lb. lb. lb. lb. lb.	.66 .58% noncemm .30% 80.00 60.00 109.00	60.00 70.00 120.00	Beclirach, USP, non-sterile, and billion unite or more millionunits Berbital, NF, 50-kilo driss, divid kilo Barbital-sodium, NF, 50-kilo driss, divid coarse, bgs., ct., f.o.b. nines ib.	6.30 22.50	888	USP cyst., dms., ton lots as me ba- sis b.  Berzongum, Sumatra, cs. b. Berzongum, Sumatra, cs. b. Berzongum, Sumatra, cs. b. Berzongum, Sumatra, cs. b. Berzongum, N.F., 1,000 libe. or more, Lob. kg, tsch, 1,000 kilos or more, kob. kg, tsch, 1,000 kilos or more, kob. kgs. 2,2-Berzonthiaryl disulfide (see Mercey fide). Berzonthiaryl disulfide (see Mercey fide).  powd, drss., 1,000 lbs. or more, same basis. lb. Berzonthioride, refd., drss., 13, 171. equatid. lb. lants, th enued.	1.66 3.5 7.4 4.3 ptoban 9.1 9.2 9.8
b. owder 20c.  5-lb. dms.  6-lb. dms.  8-lb. dms.  8-lb. dms.  8-lb. dms.  10c. db.  1	.66 .581 .303 .303 .303 .303 .303 .303 .303 .30	60.00 70.00	Becliracin, USP, non-sterile, and billion unite or more million units Berbital, NF, 50-kilo dnis., divd kilo Berito divy.d Southern, off-color, coarse, bgs., c.i., f.o.b. mines th. wefor-grd., white, bgs., c.i.	6.30 22.50 23.00	888	USP cyst., dms., toniuts asme ba- b. Benzohann, Sumatra, ca	1.66 3.5 7.4 4.3 ptoban 9.1 9.2 9.8
b	.66 .58% noncemm .30% 80.00 60.00 109.00	60.00 70.00 120.00	Becliracin, USP, non-sterilo, eno billion unite or moro million units Berbital, NF, 50-kilo dnis., divd kilo Barbital-sodium, NF, 50-kilo dnis. divd kilo Bertital, NF, 50-kilo dnis., divd kilo Bertital, NF, 50-kilo dnis., divd kilo Bertito, div-grd., Southern, off-color, coarsa, bgs., cf., f. o. b. mines to. wefor-grd., white. bgs., cf., 1, o.b. works to.	6.30 22.50 23.00 .09	888	USP cyst., dms., tonicis asme ba- sis is b. Benzopiecona, N.F., 1,000 libe. or more, Lo.b. ib. NF., 1,000 tibes or more, Lo.b. kg. tach, 1,000 tibes or more, lo.b. kg. 2.2-Benzohlaryi disulfide (see Merces lide). Benzotiszola, faise, dms., 1,000 libs. or more, Lo.b. works b. powd., dms., 1,000 libs. or more, casme basis. lib. photo-grade, dms., 1,000 libs. or more, same basis. lib. Benzotischiotole, refut. dms., 1,1,1,1,1 taris, fri squaid. lib. Benzotichiotole dms., c.L., works. lib. laris, fri squaid. lib. Benzotichiotole dms., c.L., works. lib. laris, fri squaid. lib.	1.60 3.5 7.4 4.3 ptoban 9.1 9.2 9.8
b. owder 20c. 5-lb. dms. ore, f.o.b. lb. lb. lb. lb. lb. lb. lb. lb. lb.	.66 .583 .303 .309 .309 .309 .309 .309 .309 .30	60.00 70.00 120.00	Beckrack, USP, non-sterile, one billion unite or more million units or more million units Berbital, NF, 50-kilo dins., divd kilo Berbital, NF, 50-kilo dins., cito divord Southern. of-color. coarse, bgs., c.l., f.o.b. mines th. water-grd., white, bgs., c.l., l.o.b. works ib. unbleached, extra-fine, pigment	6.30 22.50 23.00	8.80	USP cyst., dms., toniuts asme ba- sis is  Barachgun, Sumatra, cs. b.  Benzoptecona, N.F., 1,000 libe. or more, Lo.b. ib.  N.F., 1,000 tides or more, Lo.b. kg. tach, 1,000 tides or more, Lo.b. works. kgs. 2.2-Barachiaryl disulfide (see Merces) fide).  Benzolfezola, liske, drss., 1,000 lbs. or more, Lo.b. works. b. powd., drss., 1,000 lbs. or more, same basis. lb. photo-grade, drss., 1,000 lbs. or more, same basis. lb. Benzolfchiode, refd., drss., 1,1, fri. acquid. lb. Benzolfchiode drss., cl., works. fb. larks, th equid. lb. Benzolf original drss., cl., works. fb. larks, th equid. lb. Benzolf original drss., cl., works. fb. larks, th equid.	1.66 3.5 7.4 4.3 ptoban 9.1 9.2 9.8
b. owder 20c.  5-lb. dms. ore, f.o.b. b. Bb. B DI- and n ms. c.l., 11., bulk, c.f., ton l4% tanks, ueld. ton. ch. (see Am ch. crysf., b. sanks, (rt.	.66 .581 .303 .303 .303 .303 .303 .303 .303 .30	60.00 70.00 120.00	Becliracin, USP, non-sterile, end billion unite or more million units Berbital, NF, 50-kilo dnis., divd kilo Berbital, NF, 50-kilo dnis., divd kilo Berbital-sodium, NF, 50-kilo dnis., divd kilo Berito. diy-grd., Soulhem, off-color, coarsa, bgs., ct., f.o.b. mines to. welfor-grd., white. bgs., ct., l.o.b. works to. unislached, extra-fire, pigment grade, ct., f.o.b. works to. Barlum earbonete, proclo., tufk, o.t.,	6.30 22.50 23.00 .09 .13	880	USP cyst., dms., tonicis asme ba- sis b. Berzongen, Sumatra, cs. b. Berzongenona, N.F., 1,000 libe. or more, Lo.b. ib. N.F., 1,000 kilos or more, Lo.b. kg, tsch, 1,000 kilos or more, lo.b. kg. 1,000 kilos or more, lo.b. kg. 1,000 kilos or more, lo.b. kg. 2,2-Berzontharyl disulfide (see Mercey Ride). Berzontharyl disulfide (see Mercey Ride). Downd, dms., 1,000 lbs. or more. same basis. lb. pond, dms., 1,000 lbs. or more. more, same basis. lb. Benzonchloride, reful, dms. 1., [rl. acust. lb. larks, tri. equald. lb. Benzon chloride dms., cl., works. lb. larks, tri. equald. lb. Benzon provide, refuler green. 10,000 lb. bits or more. bree	1.66 3.57.4 4.3 atoban 9.1 9.2 9.8 .5
b.  b.  conder 20c.  5-lb. dms.  conder 1.0.b.  b.  conder 20c.  b.  conder 20c.  c	.66 .581 .501 .303 .303 .80,00 .109,00 .460,00 .moritum ti	60.00 70.00 120.00	Becitracin, USP, non-sterilo, enc billion unite or moro million units Berbital, NF, 50-kilo driss, divd kilo Barbifel-sodium, NF, 50-kilo driss, divd kilo Berito. div-grd. Southern. off-color, coarso, bgs., c.i., f.o.b. mines to. wefor-grd., whito. bgs., c.i., i.o.b. works unbloached, oxtra-fino, pigment grado, c.i., f.o.b works ton Barlum carboneto, precip., tufik, o.i., works, frt. oquald works, frt. oquald	6.30 22.50 23.00 .09 .13 160.00	.11	USP cyst., dms., tonicis asme ba- sis sis b. Benzopiecona, N.F., 1,000 libe. or more, Lo.b. kg. ton., 1,000 kibes or more, Lo.b. kg. tach, 1,000 kibes or more, Lo.b. kg. 22. Benzohlaryi disulfide (see Merces Ride). Benzolriazyi paraxide, reguler gren. 10,000 lb. tots or more, boes, works if the see Merces Ride Ride Ride Ride Ride Ride Ride Ride	1.66 3.5 7.4 4.3 ptoban 9.1 9.2 9.8
b. owder 20c.  5-lb. dms. ore, f.o.b. lb. lb. lb. lb. lb. lb. lb. lb. lb.	.66 .583 .303 .309 .309 .309 .309 .309 .309 .30	60.00 70.00 120.00	Becliracin, USP, non-sterile, and billion unite or more million units or more million units Berbital, NF, 50-kilo dms., dyd kilo Barbital-sodium. NF, 50-kilo dms. divd kilo Berito diy-grd , Soulhern, of-color, coarse, bgs., c.i., f.o. b. mines th. wafor-grd., white, bgs., c.i., i.o. b. mines th. unbloached, extra-fine, pigment grade, c.i., f.o. b. works to. unbloached, extra-fine, pigment grade, c.i., f.o. b. works to. unbloached, extra-fine, pigment grade, c.i., f.o. b. works to. b. bgs., earno brais to.	6.30 22.50 23.00 .09 .13 160.00	.11	USP cyst., dms., tonicis asme ba- be sersonam, Sumatra, ca	1.66 3.55 7.4 4.3 ptoban 9.1 9.2 9.8 .5 .7
b. owder 20c.  5-lb. dms.  6-lb. dms.  8-lb. dms.  8-lb. dms.  8-lb. dms.  10c. db.  1	.56 .583 .500 .309 .80.00 .109.00 .460.00 .moritum ii .1.02 .83	60.00 70.00 120.00	Becliracin, USP, non-sterile, end billion unite or more million units or more million units Berbital, NF, 50-kilo dnis., divd kilo Barbital: sodium, NF, 50-kilo dnis., divd kilo Berito, diy-grad , Southern, off-color, coarsa, bgs., c.l., f.o. b. mines b. wefor-grad, whitho, bgs., c.l., l.o.b. works ib. unbleached, oxtra-fino, pigment grado, c.l., f.o. b. works ib. works ib. works ib. works ib. co.b. works ib. works ib. bgs., earno basis ib. bphoto grado, bgs., same basis ion	6.30 22.50 23.00 .09 .13 160.00	.11	USP cyst., dms., tonicis asme ba- sis sis b. Benzopiecona, N.F., 1,000 libe. or more, Lo.b. lib. NF., I,000 kilos or more, Lo.b. kg. tach, 1,000 kilos or more, lo.b. kg. 22. Benzofiaryi disulfide (see Merces lide). Benzofiaryi disulfide (see Merces lide). Genzofiaryi disulfide (see Merces lide). Dowd., dms., 1,000 lbs. or more. Same basis. lb. photograde, dms., 1,000 lbs. or more, same basis. lb. photograde, dms., 1,000 lbs. or more, same basis. lb. Benzofichide, refd., dms., IJ., fri. same, fri. equaid. lb. Benzof paroxide, reguier gren. 10,000 lb. bis or more, bgs., wors, fri. equaid. lb. pass, 50% and 55% tormiratione, Benzyl paroxide, fri. equaid. lb.	1.8i 3.5i 7.4i 4.3 atoban 9.1 atoban 9.2 g.8 .5 .7 2.3
b. owder 20c.  5-lb. dms. ore, f.o.b. lb. lb. lb. lb. lb. lb. lb. lb. lb.	.66 .581 .501 .303 .303 .80,00 .109,00 .460,00 .moritum ti	60.00 70.00 120.00	Beclirach, USP, non-sterilo, end billion unite or moro million units Berbital, NF, 50-billio dris., divd kilo Barbitel-sodium, NF, 50-kilo dris. divd kilo Berito. div-grd., Southern. off-color. coarsa, bgs., ct., f.o.b. mines to. wellor-grd., whito. bgs., ct., l.o.b. works b. unbleached, oxtra-fino, pigment grado, ct., f.o.b. works to. Barlum onrbonelo, predp., bulk. ot., works, frt. oquald b. bgs., earno brists b. photo grado, bgs., same basis ton Barlum chlorato, 100-lb. dins., 1-10	6.30 22.50 23.00 .09 .13 160.00 .25 .2515	.11	USP cyst., dms., tonicis asme ba- sis sis b. Barachgun, Sumatra, cs. b. Benzopiecona, N.F., 1,000 libe. or more, Lo.b. ib. NF., 1,000 tibe or more, Lo.b. kg. tach, 1,000 tibes or more, lo.b. kg. 1,000 tibes or more, lo.b. works. b. penzotiszola, lake, cins., 1,000 libs. or more, same basis. b. photo-grade, dms., 1,000 libs. or more, same basis. lb. Benzotichiotrie, refd., dms., [J., [f1] squaid. lb. Benzotichiotrie dms., cl., works. lb. larks, ft. equaid. lb. Benzotichiotrie, dms., cl., works. lb. larks, ft. equaid. lb. Benzotichiotrie, dms., cl., works. lb. larks, ft. equaid. lb. Benzotichiotrie, dms., cl., works. lb.	1.66 3.55 7.4 4.3 ptoban 9.1 9.2 9.8 .5 .7
b. owder 20c.  5-lb. dms. ore, f.o.b. lb. lb. lb. lb. lb. lon lb. lon lb. lon lb. lon lb. lon lb. lon lb. lb. lon lb.	.66 .581 .303 80.00 60.00 109.00 460.00 monlum ii 1.02 .93 .13	60.00 70.00 120.00	Beclirach, USP, non-sterile, and billion unite or more million units or more million units Berbital, NF, 50-kilo dins., divd kilo Barbiral-sodium, NF, 50-kilo dins. divd kilo Berito diy-grd , Soujharn, off-color, coatra, pgs., c.i., f.o. b. minest b. walfor-grd., whilo. bgs., c.i., i.o. b. works ib. unbleached, oxtra-fino, pigment grado, c.i., f.o. b. works ion Barlum orbonelo, prodp., Lufk, o.i., works, frt. oquald b. bgs., earno brais ib. pholo grado, bgs., samo basis ion Barlum chioreto, 100-lb dins., 1-10 din. lote, works ib.	6.30 22.50 23.00 .09 .13 160.00	.11	USP cyst., dms., tonicis asme ba- barzongum, Sumatra, ca	1.8( 3.5)7.4 4.3 4.3 9.1 9.1 9.2 9.8 8.5 7.7 1.7
b.  b.  cover 20c.  b.  cover 1.0.b.  b.  cover 1.0.b.  b.  cover 1.0.b.  cover 1.0.b.	.66 .581 .591 .303 .80.00 .60.00 109.00 .460.00 monium ii 1.02 .83 .72	69.00 70.00 120.00 hiccyznafe).	Becliracin, USP, non-sterile, end billion unite or more million units or more million units Berbital, NF, 50-kilo dnis., divd kilo Barbiral-sodium, NF, 50-kilo dnis., divd kilo Berito, diy-grd , Southern, off-color, coarsa, bgs., cl., f.o. b. mines th. wefor-grd., white, bgs., cl., l.o.b. works ib. unbloached, oxtra-fino, pigment grade, cl., f.o. b. works ib. unbloached, oxtra-fino, pigment grade, cl., f.o. b. works ib. unbloached, oxtra-fino, pigment grade, cl., f.o. b. works ib. by boto grade, bgs., same basis ion Barlum chierate, 100-lb. dins., 1-10 dni. lote, works th. Barlum chioride, foch., crysl., bgs., cl.,	6.30 22.50 23.00 .09 .13 160.00 .25 .251 510.00 1.04	.11	USP cyst., dms., tonicis asme ba- sis is sumatra, cs. b. Benzopiecona, N.F., 1,000 libe. or more, Lo.b. kg. ton., 1,000 kibos or more, Lo.b. kg. tach, 1,000 kibos or more, Lo.b. kg. tach, 1,000 kibos or more, Lo.b. kg. 22, Benzohiaryi disulikde (see Merces Ride). Benzoliszva, Rake, drns., 1,000 libe. or more, Lo.b. works b. powd., dms., 1,000 libe. or more esame basis. lib. priotograde, dms., 1,000 libe. or more, same basis. lib. Benzolichioride, reful., dms., 13, fri. same, 11, sequald. lib. Benzolichioride dms., c.I., works. fib. larks, 11, sequald. lib. Benzolichioride, reguler gran., 10,000 lib. bits or more, bges., works, fir. squald. lib. Benzolicostis, dms. Benzolicostis, dms. Benzolicostis, dms. Benzolicostis, dms. Benzolicostis, dms. Benzolicostis, dms.	1.86 3.55 7.4 4.3 4.3 9.1 9.2 9.8 5.5 7.7 2.3 1.1 1.1
b. owder 20c.  5-lb. dms. ore, f.o.b. lb. e Di- and nms. c.l., 11., lb. lon orks. lon lb. lon orks. lon ch. (see Am. ch., crysf., lb.	.66 .581 .303 80.00 60.00 109.00 460.00 monlum ti 1.02 .93 .13 .72	60.00 70.00 120.00 	Beckracin, USP, non-sterilo, eno billion unite or moro million unite or moro million unite or moro million unite or moro million unite Berbital, NF, 50-kilo dms., divd kilo Barito div-grd , Southern off-color, coarso, bgs., c.f., fo.b. mines b works b. unive ato works to. unive ato	6.30 22.50 23.00 .09 .13 150.00 .25 .25 510.00 1.04	.11	USP cyst., dms., tonicis asme ba- sis sis b. Benzopiecona, N.F., 1,000 libe. or more, Lo.b. lib. NF., I,000 tibes or more, Lo.b. kg. tach, 1,000 tibes or more, Lo.b. kg. tach, 1,000 tibes or more, lo.b. kg. 2.2-Benzofiaryl disultide (see Merces Ide). Benzotiaryl disultide (see Merces Ide). Genzotiaryl disultide (see Merces Ide). Dowd., dms., 1,000 lbs. or more. same basis. lb. photo-grade, dms., 1,000 lbs. or more, same basis. lb. photo-grade, dms., 1,000 lbs. or more, same basis. lb. Benzotickioride, refd., dms., IJ., [ri. acquid. lb. Benzotickioride dms., cl., works. lb. larie, ft. equald. lb. Benzoti peroxide, reguler gran. 10,000 lb. bits or more, bgs., works. ft. squid. lb. Benzyl scoters, dms. Benzyl scoters, dms. Benzyl scoters, dms. Benzyl scoters, dms. Larie, ft. equald. lb. Benzyl scoters, dms. Benzyl scote	1.8( 3.5)7.4 4.3 4.3 9.1 9.1 9.2 9.8 8.5 7.7 1.7
b. owder 20c.  5-lb. dms. b. lb. dms. b. lb. lb. b. lb. lb. cf. lb. lb. lon l4% tanks. ueld. ton. ch. see Am ch. crysf. b. lb. sanks. lb. harts. lb.	.66 .58) .500 .500 .500 .500 .500 .500 .500 .50	60.00 70.00 120.00 	Becliracin, USP, non-sterile, end billion unite or more million units or more million units Berbital, NF, 50-kilo dnis, divd kilo Barbiral-sadium, NF, 50-kilo dnis, divd kilo Berito, diy-grd , Southern, off-color, coarsa, bgs., c.l., f.o. b. mines b. wefor-grd, white, bgs., c.l., l.o.b. works ib. unblached, oxtra-fino, pigment grado, c.l., f.o. b. works ib. unblached, oxtra-fino, pigment grado, c.l., f.o. b. works ib. by both or ado, bgs., eamo basis ion Barium chiorato, 100-lb. dins., 1-10 dni. lote, works ib. Barium chioride, foch, cryst., bgs., c.l., works ion Barium dilorido, purit., eamo basis ion Barium dilorido, guilt., oyrst. 400-b.	6.30 22.50 23.00 .09 .13 150.00 .25 .25 510.00 1.04 470.00 590.00	.11	USP cyst., dms., tonicis asme ba- barzongum, Sumatra, ca	1.86 3.55 7.4 4.3 4.3 9.1 9.2 9.8 5.5 7.7 2.3 1.1 1.1
b. owder 20c.  5-lb. dms. ore, f.o.b.  10. lb.	.68 .581 noncemm .303 80.00 109.00 460.00 mortum t 1.02 .93 .13 .72 .57 .40 2.36	60.00 70.00 120.00 hiccyanare).	Beckracin, USP, non-sterilo, eno billion unite or moro millionumits Berbital, NF, 50-kilo dms., divd kilo Barbital-NF, 50-kilo dms., divd kilo Barbital-NF, 50-kilo dms., divd kilo Barito div-grd , Southem off-color, coarso, bgs., cf., fo b. nines b welfor-grd , white. bgs., cf., fo b. nines b welfor-grd , white. bgs., cf., fo b. nines b welfor-grd , white. bgs., cf., fo b. nines b welfor-grd , white. bgs., cf., fo b. nines b welfor-grd , white. bgs., cf., b	6.30 22.50 23.00 .09 .13 160.00 .25 .25 510.00 1.04 470.00 590.00	.11	USP cyst., dms., tonlots asme ba- sis	1.86 3.55 7.44 4.3 4.3 9.1 9.2 9.8 5.5 7.7 1.3 1.3 1.3 1.3
ib.  owder 20c.  5-lb. dms.  ore, f.o.b.  lb.  e Di- and n  ms. c.l., 11,  ib.  ib.  icon  orks. lon  ton  ton  ton  ton  ch. (see Am  ch. crysf.  anks, (rt.  boltographic,  works. lb.  asia (somers,  lb.  d lsomers,  lb.  lb.  d lsomers,  lb.  d lsomers,  lb.  d lsomers,  lb.  d lsomers,  lb.  lb.  d lsomers,  lb.  lb.	.66 .581 .501 .303 .80.00 .60.00 .109.00 .460.00 .monium ii .72 .67 .401 .236 .61	60.00 70.00 120.00 	Becliracin, USP, non-sterile, and billion unite or more millionunits Bertital, NF, 50-kilo dms, dyd. kilo Barbirel-sedium, NF, 50-kilo dms, dwd. kilo Bertital, dwgrad, Cal, f.o.b. mines the water-grd., white, by mines the water-grd., white, by more the unbleached, extra-fine, pigment grade, c.l., f.o.b. works into Bartum carboneto, precip., bulk, o.l., works, frt. equald. by bye, earno breis. by photo grade, bye, same basis ten Bartum chloride, foch, cryst., bgs., c.l., works. ton Bartum chloride, foch, cryst., bgs., c.l., works. ton Bartum olilorido, putil., eyrst. 400-lu. dms, works. b. Bartum moreolyticale, 66-lb. bos., c.l.,	6.30 22.50 23.00 .09 .13 160.00 .25 .25 510.00 1.04 470.00 590.00	.11	USP cyst., dms., tonicis asme ba- sis asmerosam, Sumatra, ca	1.80 3.55 7.44 4.3 4.3 9.1 9.2 9.8 5.5 7.7 1.3 1.4 1.4 1.4 1.4
	.66 .58) .500 .500 .500 .500 .500 .500 .500 .50	60.00 70.00 120.00 	Becliracin, USP, non-sterile, end billion unite or more million units or more million units Berbital, NF, 50-kilo dms., divd kilo Barbital-sodium, NF, 50-kilo dms. divd kilo Berito. diy-grd., Southern. off-color. coarsa, bgs., c.l., fo. b. wines b. wafor-grd., white. bgs., c.l., l.o.b. works ib. unblached, oxtra-fino, pigment grado, c.l., fo. b. works ib. unblached, oxtra-fino, pigment grado, c.l., fo. b. works ib. by beg., esmo basis ib. Barium chloride, foch, cryst., bgs., c.l., works ion Barium dilorido, purit., eamo basis ib. Barium olilorido, purit., eamo basis ib. Barium olilorido, purit., eamo basis ib. Barium monohydrolo, 56-lb. bgs., c.l., f.l. f.e. b. works ib. Barium monohydrolo, 56-lb. bgs., c.l., f.l. f.e. b. works io. Ib.	6.30 22.50 23.00 .09 .13 160.00 .25 .251 510.00 1.04 470.00 590.00 3.78	.11	USP cyst., dms., tonicis asme ba- sis	1.86 3.55,7.44 4.33 9.10 9.10 9.20 9.80 5.51 7.71 1.31 1.31 1.31
ib.  wider 20c.  5-lib. dms.  ore, f.o.b.  lib.  BD.  BD.  BD.  BD.  BD.  BD.  BD.  B	.68 .581 .581 .581 .581 .581 .581 .581 .58	60.00 70.00 120.00 hiccyanare).	Becliracin, USP, non-sterilo, eno billion unite or moro million unite Berbital, NF, 50-kilo dins., divd kilo Barito div-grd , Southern, off-color, coarse, bgs., cf., fo.b. mines b was for-grd., whito, bgs., cf., fo.b. mines b was for-grd., whito, bgs., cf., fo.b. works to. unive attention or boneto, prodip, tufk, off., works to. bgs., earno basis ion Barium or boneto, bgs., earno basis ion Barium chiorato, 100-lb. dins., 1-10 dn. lote, works to. Barium chiorato, 100-lb. dins., 1-10 dn. lote, works to. Barium chiorato, pulli, eyest, 400-lb. dns., works to. Berium monorydroto, 56-lb. bps., cf., f.f. fo.b. works 100 lbs. colehydrete, cryst., bps., sente	6.30 22.50 23.00 .09 .13 150.00 .25 .25 510.00 1.04 470.00 590.00 3.78	.11	USP cyst., dms., tonicis asme ba- sis sis b. Benzopiecona, N.F., 1,000 libe. or more, Lo.b. lib. NF., I,000 tibes or more, Lo.b. kg. tach, 1,000 tibes or more, Lo.b. kg. tach, 1,000 tibes or more, lo.b. kg. 2.2-Benzohland disulfide (see Merces Ide). Benzotiszola, faike, dms., 1,000 libs. or more, Lo.b. works b. powd., dms., 1,000 libs. or more, same basis. lib. photo-grade, dms., 1,000 libs. or more, same basis. lib. Benzotinchorde, reful dms., I.J., fri. same, fri. equald. lib. Benzotinchorde dms., c.I., works b. laries, fri. equald. lib. Benzotinchorde, ms., c.I., works b. laries, fri. equald. lib. Benzotinchorde, ms., c.I., works b. laries, fri. equald. lib. Benzotinchorde, dms., c.I., works b. laries, fri. equald. lib. Benzotinchorde, dms., fri. equald. lib. Benzotinchorde, dms., b. Benzotinchorde, dms., fri. equald. lib. Benzotinchorde, dms., b. laries, amme basis jato profe, Li., dms., same basis lack, same basis. benzotinchorde, dms., benzo basis lib. Benzotinchorde, dms.	1.80 3.55 7.44 4.3 4.3 9.1 9.2 9.8 5.5 7.7 1.3 1.4 1.4 1.4 1.4
	.66 .581 .501 .303 .80.00 .60.00 .109.00 .460.00 .monlum ii .72 .67 .401 .235 .61 .11.50 .365 .700.00	60.00 70.00 120.00 hisoyanafe).	Beclirach, USP, non-sterile, and billion unite or more million units or more million units or more million units Berbital, NF, 50-kilo dms, dvd. kilo Berbital, NF, 50-kilo dms, dvd. kilo Berbital, NF, 50-kilo dms, dvd. kilo Berito div. NF, 50-kilo dms, dvd. kilo Berito div. NF, 50-kilo dms, dvd. kilo Berito div. Southern, officiolor, coatra, bgs., c.i., f.o.b. wines b. wafor-grd., whilo. bgs., c.i., f.o.b. works ib. unbleached, oxira-fino, pigment grado, c.i., f.o. b. works ion Berium orbonelo, precip. bulk, o.i., works, frt. oquald. bb. bgs., earno brais. bb. Berium chiorido, foch, crysl., bgs., c.i., works. ion Berium chiorido, foch, crysl., bgs., c.i., works. ion Berium olikorido, puril., oyrat. 400-b. dms, works. ion Berium olikorido, puril., oyrat. 400-b. c.i., f.i.f.b. bworks. ion basis. same basis. same	6.30 22.50 23.00 .09 .13 160.00 .25 .251 510.00 1.04 470.00 590.00 3.78 48.00	.11	USP cryst, dms., tonicis asme ba- sis seriologim, Sumatra, ca	1.86 3.55,7.44 4.33 9.10 9.10 9.20 9.80 5.51 7.71 1.31 1.31 1.31
ib.  wider 20c.  5-lb. dms.  ore, f.o.b.  b.  b.  b.  b.  con ib.  con ib.  con ib.  con ib.  con ib.  con ib.  anks. lon  ch. (see Am.  ch. crysf.  anks. (rt.  botographic,  works. lb.  nate, soln.  b.  d lsomers.  b.  d lsomers.  b.  klio  klio	.68 .581 .581 .581 .581 .581 .581 .581 .58	60.00 70.00 120.00 	Beclirach, USP, non-sterile, and billion unite or more million units or more million units or more million units Berbital, NF, 50-kilo dms, dvd. kilo Berbital, NF, 50-kilo dms, dvd. kilo Berbital, NF, 50-kilo dms, dvd. kilo Berito div. NF, 50-kilo dms, dvd. kilo Berito div. NF, 50-kilo dms, dvd. kilo Berito div. Southern, officiolor, coatra, bgs., c.i., f.o.b. wines b. wafor-grd., whilo. bgs., c.i., f.o.b. works ib. unbleached, oxira-fino, pigment grado, c.i., f.o. b. works ion Berium orbonelo, precip. bulk, o.i., works, frt. oquald. bb. bgs., earno brais. bb. Berium chiorido, foch, crysl., bgs., c.i., works. ion Berium chiorido, foch, crysl., bgs., c.i., works. ion Berium olikorido, puril., oyrat. 400-b. dms, works. ion Berium olikorido, puril., oyrat. 400-b. c.i., f.i.f.b. bworks. ion basis. same basis. same	6.30 22.50 23.00 .09 .13 160.00 .25 .251 510.00 1.04 470.00 590.00 3.78 48.00	.11	USP cyst, dms., tonicis asme ba- sis	1.86 3.55,7.44 4.33 9.10 9.10 9.20 9.80 5.51 7.71 1.31 1.31 1.31
	.66 .58) .500 .500 .500 .500 .500 .500 .500 .50	60.00 70.00 120.00 hisoyanafe).	Becliracin, USP, non-sterilo, eno billion unite or moro million unite Berbital, NF, 50-kilo dins., divd kilo Barito div-grd , Southern, off-color, coarse, bgs., cf., fo.b. mines b was for-grd., whito, bgs., cf., fo.b. mines b was for-grd., whito, bgs., cf., fo.b. works to. unive attention or boneto, prodip, tufk, off., works to. bgs., earno basis ion Barium or boneto, bgs., earno basis ion Barium chiorato, 100-lb. dins., 1-10 dn. lote, works to. Barium chiorato, 100-lb. dins., 1-10 dn. lote, works to. Barium chiorato, pulli, eyest, 400-lb. dns., works to. Berium monorydroto, 56-lb. bps., cf., f.f. fo.b. works 100 lbs. colehydrete, cryst., bps., sente	6.30 22.50 23.00 .09 .13 160.00 .25 .251 510.00 1.04 470.00 590.00 3.78 48.00	.11	USP cyst., dms., tonicis asme ba- sis sis b. Barachgun, Sumatra, cs. b. Benzopiecona, N.F., 1,000 libe. or more, Lob. ib. NF., 1,000 kilos or more, Lob. kg. tach, 1,000 kilos or more, lob. kg. 2.2.Barachiaryl disultide (see Merces) fide). Benzoliezola, lake, dms., 1,000 lbs. or more, Lob. works. b. powd., dms., 1,000 lbs. or more, same basis. b. pheto-grade, dms., 1,000 lbs. or more, same basis. lb. Benzolickickie, refd., dms., [J., [fr]. equald. lb. Benzolickickie, refd., dms., [J., [fr]. equald. lb. Benzolickie, dms., cl., works. lb. larks, 11 equald. lb. Benzolickie, dms., cl., works. lb. larks, 11 equald. lb. Benzolickie, dms., cl., works. lb. larks, 11 equald. lb. Benzolickie, dms., lb. Benzolickie, dms., lb. Benzolickie, dms., lb. larks, same basis sach, grade, tl., dms., same basis sach, grade, tl., dms., same basis lb. larks, lob. lb. lb. lb. lb. lb. lb. lb. lb. lb. l	1.86 3.55,7.44 4.33 9.10 9.10 9.20 9.80 5.51 7.71 1.31 1.31 1.31
	.66 .58) .500 .500 .500 .500 .500 .500 .500 .50	60.00 70.00 120.00 hisoyanafe).	Beclirach, USP, non-sterile, and billion unite or more million units or more million units or more million units Berbital, NF, 50-kilo dms, dvd. kilo Berbital, NF, 50-kilo dms, dvd. kilo Berbital, NF, 50-kilo dms, dvd. kilo Berito div. NF, 50-kilo dms, dvd. kilo Berito div. NF, 50-kilo dms, dvd. kilo Berito div. Southern, officiolor, coatra, bgs., c.i., f.o.b. wines b. wafor-grd., whilo. bgs., c.i., f.o.b. works ib. unbleached, oxira-fino, pigment grado, c.i., f.o. b. works ion Berium orbonelo, precip. bulk, o.i., works, frt. oquald. bb. bgs., earno brais. bb. Berium chiorido, foch, crysl., bgs., c.i., works. ion Berium chiorido, foch, crysl., bgs., c.i., works. ion Berium olikorido, puril., oyrat. 400-b. dms, works. ion Berium olikorido, puril., oyrat. 400-b. c.i., f.i.f.b. bworks. ion basis. same basis. same	6.30 22.50 23.00 .09 .13 150.00 .25 .25 510.00 1.04 470.00 590.00 32.50	.11	USP cyst., dms., tonicis asme ba- sis	1.86 3.55,7.44 4.33,910,000,000,000,000,000,000,000,000,000
	.66 .58) .500 .500 .500 .500 .500 .500 .500 .50	60.00 70.00 120.00 hisoyanafe).	Beclirach, USP, non-sterile, and billion unite or more million units or more million units or more million units Berbital, NF, 50-kilo dms, dvd. kilo Berbital, NF, 50-kilo dms, dvd. kilo Berbital, NF, 50-kilo dms, dvd. kilo Berito div. NF, 50-kilo dms, dvd. kilo Berito div. NF, 50-kilo dms, dvd. kilo Berito div. Southern, officiolor, coatra, bgs., c.i., f.o.b. wines b. wafor-grd., whilo. bgs., c.i., f.o.b. works ib. unbleached, oxira-fino, pigment grado, c.i., f.o. b. works ion Berium orbonelo, precip. bulk, o.i., works, frt. oquald. bb. bgs., earno brais. bb. Berium chiorido, foch, crysl., bgs., c.i., works. ion Berium chiorido, foch, crysl., bgs., c.i., works. ion Berium olikorido, puril., oyrat. 400-b. dms, works. ion Berium olikorido, puril., oyrat. 400-b. c.i., f.i.f.b. bworks. ion basis. same basis. same	6.30 22.50 23.00 .09 .13 150.00 .25 .25 510.00 1.04 470.00 590.00 32.50	.11	USP cyst., dms., tonicis asme ba- sis sis b. Barachgun, Sumatra, cs. b. Barachgun, Sumatra, cs. b. Benzopiecona, N.F., 1,000 libe. or more, Lob. kg. NF., 1,000 kilos or more, Lob. kg. 1sch, 1,000 kilos or more, lob. kg. 2.2.Barachiaryl disultide (see Merces) Tide). Benzotiezola, lake, cirus., 1,000 libs. or more, Lob. works. b. powd., dms., 1,000 libs. or more, same basis. lb. pheto-grade, dms., 1,000 libs. or more, same basis. lb. Benzotichiotride, refut. dms., [J., [fr]. equaid. lb. Benzotichiotride dms., c.L., works. lb. larks, 11 aquaid. lb. Benzotichiotride dms., c.L., works. lb. larks, 11 aquaid. lb. Benzotichiotride, reguler gren. 10,000 lb. lois or more, bge., works, frt. aquaid. lb. Benzotichiotride, dms., c.L., works. lb. larks, 10 aquaid. lb. Benzotichiotride, dms., lb. lb. Benzotichiotride, dms., same basis, lbc. larks, same basis, lbc. larks, same basis, lbc. larks, lc. dms., lc. dms., lb. lb. Benzotichiotride, lbc. lb. Benzotichiotride, lbc. lb. Benzotichiotride, lbc. lb. Benzotichiotride, lbc. lbc. lbc. lbc. lbc. lbc. lbc. lbc.	1.86 3.55 7.44 4.33 9.10 9.2 9.8 5.5 7.7 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3
	.66 .58) .500 .500 .500 .500 .500 .500 .500 .50	60.00 70.00 120.00 hisoyanafe).	Beclirach, USP, non-sterile, and billion unite or more million units or more million units or more million units Berbital, NF, 50-kilo dms, dvd. kilo Berbital, NF, 50-kilo dms, dvd. kilo Berbital, NF, 50-kilo dms, dvd. kilo Berito div. NF, 50-kilo dms, dvd. kilo Berito div. NF, 50-kilo dms, dvd. kilo Berito div. Southern, officiolor, coatra, bgs., c.i., f.o.b. wines b. wafor-grd., whilo. bgs., c.i., f.o.b. works ib. unbleached, oxira-fino, pigment grado, c.i., f.o. b. works ion Berium orbonelo, precip. bulk, o.i., works, frt. oquald. bb. bgs., earno brais. bb. Berium chiorido, foch, crysl., bgs., c.i., works. ion Berium chiorido, foch, crysl., bgs., c.i., works. ion Berium olikorido, puril., oyrat. 400-b. dms, works. ion Berium olikorido, puril., oyrat. 400-b. c.i., f.i.f.b. bworks. ion basis. same basis. same	6.30 22.50 23.00 .09 .13 150.00 .25 .25 510.00 1.04 470.00 590.00 32.50	.11	USP cyst., dms., tonicis asme ba- sis as a consistence of the consiste	1.86 3.55 7.44 4.33 9.10 9.11 9.2 9.8 5.5 7.7 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3
	.66 .58) .500 .500 .500 .500 .500 .500 .500 .50	60.00 70.00 120.00 hisoyanafe).	Beclirach, USP, non-sterile, and billion unite or more million units or more million units or more million units Berbital, NF, 50-kilo dms, dvd. kilo Berbital, NF, 50-kilo dms, dvd. kilo Berbital, NF, 50-kilo dms, dvd. kilo Berito div. NF, 50-kilo dms, dvd. kilo Berito div. NF, 50-kilo dms, dvd. kilo Berito div. Southern, officiolor, coatra, bgs., c.i., f.o.b. wines b. wafor-grd., whilo. bgs., c.i., f.o.b. works ib. unbleached, oxira-fino, pigment grado, c.i., f.o. b. works ion Berium orbonelo, precip. bulk, o.i., works, frt. oquald. bb. bgs., earno brais. bb. Berium chiorido, foch, crysl., bgs., c.i., works. ion Berium chiorido, foch, crysl., bgs., c.i., works. ion Berium olikorido, puril., oyrat. 400-b. dms, works. ion Berium olikorido, puril., oyrat. 400-b. c.i., f.i.f.b. bworks. ion basis. same basis. same	6.30 22.50 23.00 .09 .13 150.00 .25 .25 510.00 1.04 470.00 590.00 32.50	.11	USP cyst, dms., tonicis asme basis is sensopreces, N.F., 1,000 libe. or more, Lo.b. kg. tonicis asme basis. Its provides or more, Lo.b. kg. tack, 1,000 kibes or more, Lo.b. kg. tack, 1,000 kibes or more, Lo.b. kg. tack, 1,000 kibes or more, Lo.b. works . kgs. consections of more, Lo.b. works . b. powd, dms., 1,000 ba. or more, Lo.b. works . b. powd, dms., 1,000 ba. or more, same basis. Ib. pricto-grade, dms., 1,000 ba. or more, same basis. Ib. pricto-grade, dms., 1,000 ba. or more, same basis. Ib. lanks, 11 aquaid. Ib. pasis, 50% and 55% formulatione, works, 11 aquaid. Ib. lanks, same basis. Ib.	1.86 3.55,7.44 4.33,910,000,000,000,000,000,000,000,000,000
	.66 .58) .500 .500 .500 .500 .500 .500 .500 .50	60.00 70.00 120.00 hisoyanafe).	Beclirach, USP, non-sterile, and billion unite or more million units or more million units or more million units Berbital, NF, 50-kilo dms, dvd. kilo Berbital, NF, 50-kilo dms, dvd. kilo Berbital, NF, 50-kilo dms, dvd. kilo Berito div. NF, 50-kilo dms, dvd. kilo Berito div. NF, 50-kilo dms, dvd. kilo Berito div. Southern, officiolor, coatra, bgs., c.i., f.o.b. wines b. wafor-grd., whilo. bgs., c.i., f.o.b. works ib. unbleached, oxira-fino, pigment grado, c.i., f.o. b. works ion Berium orbonelo, precip. bulk, o.i., works, frt. oquald. bb. bgs., earno brais. bb. Berium chiorido, foch, crysl., bgs., c.i., works. ion Berium chiorido, foch, crysl., bgs., c.i., works. ion Berium olikorido, puril., oyrat. 400-b. dms, works. ion Berium olikorido, puril., oyrat. 400-b. c.i., f.i.f.b. bworks. ion basis. same basis. same	6.30 22.50 23.00 .09 .13 150.00 .25 .25 510.00 1.04 470.00 590.00 32.50	.11	USP cyst., dms., tonicis asme ba- sis sis b. Barachgun, Sumatra, cs. b. Benzopiecona, N.F., 1,000 libe. or more, Lo.b. lib. NF., I,000 tide or more, Lo.b. kg. tsch, 1,000 tides or more, lo.b. kg. 12.2-Banachiaryl disultide (see Merces) lide). Benzotiszola, lake, chrs., 1,000 libs. or more, Lo.b. works. b. powd., dms., 1,000 libs. or more, same basis. lib. photo-grade, dms., 1,000 libs. or more, same basis. lib. Benzotic/lockie, refd. dms., [J., [r]. same basis. lib. Benzotic/lockie, refd. dms., [J., [r]. same lasis. lib. Benzotic/lockie, refd. dms., [J., [r]. same trausid. lib. Benzotic perculde, regulier gren. 10,000 lib. lois or more, bgs., works, fit squalid. lib. Benzotic perculde, regulier gren. 10,000 lib. lois or more, bgs., works, fit squalid. lib. Benzotic perculde, lib. Benzotic school, N.F. 1.1. dms., [r]. sake, same basis. sho prais, Ll., dms., same basis, sho prais, Ll., dms., same basis, sho prais, Ll., dms., same basis, lib. benzotic school, lib. Benzotichic/de, tech., non-ret. dms., cl., Ll., tr. squalid. lib. Benzotichic/de, tech., non-ret. dms., cl., Ll., tr. squalid. lib. Benzotichic/de, tech., non-ret. dms., cl., Ll., tr. squalid. lib. Benzotichic/de, tech., non-ret. dms., cl., Ll., tr. squalid. lib. Benzotichic/de, tech., non-ret. dms., cl., Ll., tr. squalid. lib. Benzotichic/de, tech., non-ret. dms., cl., Ll., tr. squalid. lib. Benzotichic/de, tech., non-ret. dms., cl., Ll., tr. squalid. lib. Benzotichic/de, tech., lib. Benzotichic/de, tech	1.86 3.557.44 4.3391000000 9.1 9.2 9.8 5.5 7.7 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3
	.66 .58) .500 .500 .500 .500 .500 .500 .500 .50	60.00 70.00 120.00 hisoyanafe).	Beclirach, USP, non-sterile, and billion unite or more million units or more million units or more million units Berbital, NF, 50-kilo dms, dvd. kilo Berbital, NF, 50-kilo dms, dvd. kilo Berbital, NF, 50-kilo dms, dvd. kilo Berito div. NF, 50-kilo dms, dvd. kilo Berito div. NF, 50-kilo dms, dvd. kilo Berito div. Southern, officiolor, coatra, bgs., c.i., f.o.b. wines b. wafor-grd., whilo. bgs., c.i., f.o.b. works ib. unbleached, oxira-fino, pigment grado, c.i., f.o. b. works ion Berium orbonelo, precip. bulk, o.i., works, frt. oquald. bb. bgs., earno brais. bb. Berium chiorido, foch, crysl., bgs., c.i., works. ion Berium chiorido, foch, crysl., bgs., c.i., works. ion Berium olikorido, puril., oyrat. 400-b. dms, works. ion Berium olikorido, puril., oyrat. 400-b. c.i., f.i.f.b. bworks. ion basis. same basis. same	6.30 22.50 23.00 .09 .13 150.00 .25 .25 510.00 1.04 470.00 590.00 32.50	.11	USP cryst, dms., tonicis asme ba- sis as the service of the servic	1.86 3.557.44 4.33 stobon. 9.11 9.2 9.8 5.5 7.7 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3
	.66 .58) .500 .500 .500 .500 .500 .500 .500 .50	60.00 70.00 120.00 hisoyanafe).	Beclirach, USP, non-sterile, and billion unite or more million units or more million units or more million units Berbital, NF, 50-kilo dms, dvd. kilo Berbital, NF, 50-kilo dms, dvd. kilo Berbital, NF, 50-kilo dms, dvd. kilo Berito div-grd, Southern, off-color, coatre, bgs., c.i., f.o.b. mines b. wafor-grd, whilo, bgs., c.i., l.o.b. works b. unbleached, oxtra-fino, pigment grado, c.i., f.o.b. works bond grado, c.i., f.o. b. works bond grado, oxtra-fino, pigment grado, c.i., f.o. b. works bond grado, bgs., earno basis ion Berlum chlordo, polib. dms, 1-10 dm. lote, works b. b. Berlum chlordo, purit., oyrat. 400-b. dms, works. b. Berlum oxionado, purit., oyrat. 400-b. c.i., t.f. o.b. works 100 lbs. c.i., l.f. o.b. works 100 lbs. ociehydrate, cryst., bgs., seme basis. seme	6.30 22.50 23.00 .09 .13 150.00 .25 .25 510.00 1.04 470.00 590.00 32.50	.11	USP cyst, dms., tonicis asme basis is sensopreces, N.F., 1,000 libe. or more, Lo.b. kg. tonicis asme basis. Its provides or more, Lo.b. kg. tack, 1,000 kibes or more, Lo.b. kg. tack, 1,000 kibes or more, Lo.b. kg. tack, 1,000 kibes or more, Lo.b. works . kgs. consections of more, Lo.b. works . b. powd, dms., 1,000 ba. or more, Lo.b. works . b. powd, dms., 1,000 ba. or more, same basis. Ib. pricto-grade, dms., 1,000 ba. or more, same basis. Ib. pricto-grade, dms., 1,000 ba. or more, same basis. Ib. lanks, 11 aquaid. Ib. pasis, 50% and 55% formulatione, works, 11 aquaid. Ib. lanks, same basis. Ib.	1.86 3.57,44 4.33 9.10 9.11 9.22 9.8 5.57 1.13 1.13 1.14 1.14 1.15 1.15 1.15 1.15 1.15 1.15

Barlum oxide, grd., dme., c.l., ded. 100 lbs. trie birs, same basis, 100 lbs. sam peradds, 700-lb. dme., c.l., 1.l., works. lb. Sarium stearets, bulk, t.l., 1.o.b. dest. lb.

.53 1.00 .85 4.80 2.27

1.90 2.25

1.70

..lb. ..lb.

ABB	REVATIONS
THE TERMINOLOG	BY OF THE CHEMICAL MARKETPLACE

kge./kege I-/laevo fo-/pound I.O.I../less carload I.LI./less truckload F./Fahrenheit I.s.s./free siongside Isment./fermentatio

P/phosphorus p-/pars Pac./Pacific pt./proof phos./phosph tenks/reliroed tenkceri Ls./free stongaide
iement./fermentation
Ls./free fatty add
Is./fiber

m/mets
m.a.p./mixed aniline
point
mcg./microgram
mrs./manufacturers
mrs./point
tart/refired
paint
purfled
photographio
paint
purfled
photographio
prod./producer
photographio
paint
prod./purfled
photographio
photographio
photographio
prod./producer
photographio
photographio
prod./purfled
photographio
photographio
prod./producer
photographio
photographio
prod./producer
photographio
photographio
prod./producer
photographio
photographio
prod./producer
photographio
prod./producer
photographio
prod./producer
photographio
photographio
prod./producer
photographio
photographio
prod./producer
photographio
ph

Seron substitute NF, powd., 200-lb.

Gras, works. ... lb. 14.45

Baseth substitute, purif. powd., 50.10 b. drns., works. ... b. 17.00

Bareth substitute, purif. powd., 10.0

Bareth field, reagent powd., 10.0

Bareths, spoxy grade, hopper cars, dwd., 10.0

Broches, h. hrp., bage lb. ... 87

Bod to rose of Braz., drns. ... lb. 10.76

Bod to rose of Braz., drns. ... lb. 10.76

Soft bare field 48 drns., irt. aid: ... b. 7.26

Soft bare field 48 drns., irt. aid: ... b. 7.26

Sonemed, steen beais. ... b. 8.60

The soft bare field some field bare field bare prosphate, detturninated of time (see Deliturinate bare posphate). Bore prosphate, detturninated of time (see Deliturinate bare, sect. antityd., 98%, bgs., oJ., works. ... lon. 647.00

Bast, L.L. works. ... lon. 602.00

190.00 Delantroulled

.30 1.05 70.76 15.00 3.00 3.20 3.10 3.10 3.05 .34 .70 E...b Butyl sidehyda (see Butyraidehyde) Butyl benzyl phthelete, tanka, fri Butyl benzyl phthelete, tanks, [rt. std. b. Butyl chloride, tanks, works. b. Butyl cyclohexyl phthelete, tanks, divd. b. h. Butyl ether, dms., c.l., t.l., works. b. Butyl leadecyl phthelete, tenks, divd. b. n-Butyl lactele, tanks, [c.b. works. lb. n-Butyllactele, tanks, [c.b. works. lb. n-Butyllithium, 15% soln. 1,000-b. c. b. b. c. soln. 1,000-b. c. c. m. p. c. ode. 100% .53 .66 1.00 9.70 9.70 3.69 6.05 7.40 6.20 .35 1.58 Bulylstaerato lech., t1. b. .60
teriks ... b. .65
Sutylsmino (see Mono., Di- end Tributylsmine).
tert-Butylsmine, dms., c.l., 1.l., f.o.b.
works ... b. 1.31
teriks, same basis. b. 1.7
Butylsted hydroxysmisole, food grade,
dms., dlvd. b. 9.60
Sutylsfed hydroxystolane, lood, feed
grades, c.l., f.l., bgs., dlvd., b. 1.24
19ch., bgs., c.l., fl., dlvd. b. 1.24
1,3-Butylene glycol, tanke, dlvd. b. .72
Butyrekjehyde, tanke, dlvd. b. .72
Butyricerber (see Elhyl butyrefe).
Butyrolactone, tanks, fl. o.b., plant. b. 1.26
Butyrolactone, tanks, fl. o.b., plant. b. 1.26
Butyrolactone, tanks, fl. o.b., plant. b. 1.26
Butyrolactone, tanks, fl. o.b., plant. b. 1.26 9.10 9.80 1.24 1.24 .72 .281/2 1.30 1.30 .36 .68 2.36 1.71 1.20 1.05 1.43 Cadmium chlorids, puril, cryst., 100-b. dme., il., works....b. Cadmium, CP, red, dark shade, bbls., 100-b. tote, irl. allid. E. of Rockles...b. ilight shade, bbls., same basis ... b. medium shade, bbls., same basis.b. medium-light shade, bbls., same basis... b. ilight shades bbls. 2.28 3.73 .69 .64 8.60 19.35 12.06 16,20 9.19 10.69 9.95 Serry florrerie, drie. ib. 10.60
Suri Bulyfin-cresol (see Mono-tert-butyl-m-cresol).
Serry frequency drie. ib. 15.50
Serry frequency drie. ib. 3.35
Serry replace drie. ib. 2.90
Serry server see drie. ib. 2.90
Serry florrerie. ib. 3.55
Serry florrerie. ib. 3.50
Serry florrerie. ib. 10.00
Serry florrerie. ib. 10.00
Serry florrerie. ib. 10.00
Serry florrerie. ib. 17.20
Serry florrerie. ib. 17.20
Serry florrerie. ib. 16.31
Serry florrerie. ib. 10.50
Serry florrerie. ib. 10.50 10.28 8.10 2.27 4.60 1,20 15.50 3.97 4.00 4.50 frt. ald. E. of rockes.

deep shade, bbis., same besis. B.
Cadmium-selenide lithopone, red, dark
shade, bbis., same basis. Ib.
light shade, bbis., same basis. Ib.
medium light shade, bbis., same basis. Ib.
medium shade, bbis., same basis. Ib.
marcon shade, bbis., same basis. Ib.
marcon shade, bbis., same basis. Ib.
Cadmium-selenide lithopons, yellow, all
shade, bbis., same basis. Ib.
Cadmium-selenide lithopons, yellow, all
shade, bbis., same basis. Ib.
Cadmium-selenide lithopons, yellow, all
pusative, lo.b. ship. pt.
Ib.
Cadmium sullate, 50-lb. dims. cl.,
1b. caterial, down, cryst. anhyd., powd., 100-lb. dims. cl.,
1b. frt., said.
limb., cryst. anhyd., powd., dims.
10,000 lbs, or more.
b.
Caterials off, dims.
Caterials off, dims.
Caterials off, dims.
Calchirol. (see Engolasciero).
Caterials actuate, purif., powd., dims.
lb.
Caterials. 9.60. 5,30 6,75 6,40

Calcium carbide, atd., generator size, bulk, c.1, f.o.b., works,... ton 402.00 Calcium carbonate, pulverized, 325-meeh, bgs., bulk, f.o.b., works.... ton 34.50 slurrise, 54% solids, same basis... ton 167.00 72% solids, same basis... ton 68.00 calcium, evan bod, but works. 95.00 140.00 ultrefine, USP, bgs., ion 160.00 170.00 mchloride,conc.,reg.grade.77-60%, flaka, bulk, c.l., 118.00 works.....lb. 13.75 Calcium Iodata, FCC dms., 23.65 1 o.b. plant, E. of Rockles. . lb. ... ton 228.00 

3.95 Caprotectammonomer, flake, bgs., t.L., Lo.b. shipping point: ... b. molten, tenks, same basis. ... b. Capryi alcohol sec. 92-99% tanks, f.c.b. works. ... b. (n,b. works... b.
Caprylio acid, comi, pure tanks... b.
Capsicum (see Pepper, red).
Capsicum oil (see Capsicum cleoresin).
NF, irom Altican pepper, dins... b.
NF, irom Altican pepper, dins... b.
Caraway oil, Poland, dins... b.
Caraway oil, Poland, dins... b.
Caraway seed, Dutrin, bgs... b.
Egyptian, bg.
Carbon black, furnace, fast extructing.
(FEF), bulk, ol., works... b.
bgs., ol., works... b.
bgs., ol. works... b.
high abrasion (HAF), high structure, bulk, ol., works... b.
bigs., ol., works... b.
bigs., ol., works... b.

١	WEEK ENDING AUGUST	29,	1966
١	Carbon Black, low structure, bulk, c.l. workslb.	.240	.260
	begs, c.l. works	.270 .25	.290 
	bgs.,cJ. works	.28	-
	bgs.,c.l., works	.4050 .210	-
	bgs., c.L., works	.240 .30	-301/2
	bulk, c.l. worksb. Carbon black oil, barge, 1.o.b. Guil re-	.32 0.50	.34½ 12.50
	t.o.b. W. coast refinerias bbis. 1 Carbon disulfida, t.o., 1.o.b. works, ton, 42	0.60 10.00	12.50
	Carbon tetrachioride, CP, consumera, dms., o.i., int. alid lb. tech., dms., c.i., l.i., int. alid lb.	.36 .31	=
	tank transport (min. 4,000 gals.) frt. alid	.24 75.00	-
	Cardamoms, decort, Guatamaian ib. orean, Guatamaian, bos ib.	3.00 B.25	9.75
	Carmins, No. 40, NF, bulk, 100-b. lots or more, divd	35.00	140.00
	low, bgs., ton lots	1.85 1.75	2.05 1.80
	North Country, No. 2, refined, bgs., ton lots	1.55	1.65
	Carnauba wax, North Country No. 3, centrifuged, bgs., ton lots . ib North Country, No. 3, refined, bgs.	1.10	-
	ton lots	1.30	1.45
	b-Carotene, invegetable oil, semi-solid auspension, 400,000 A units per gram, 33 lbe. or more . lb.	32.75	_
•	b-Carotena, Ilq. (n. vagetable oli, 500,000 A unita per gram., 33		
0	b-Carotene, dry, beads, 10%, 167,000 A unita per gram 50-lb. cns lb.	40.76 28.65	-
0	d-Carvone, 25-fb, dms, syn lb. Harvone	48.00 7.00 1.00	7.26
	Casein, imp., ecki-precip., grd., 30- meeh, Auetrelien, edible, aamebasis.c.i.fb.	1.45	
	Australan, Indust, same basis, c.l.t	1.368	<b>-</b>
	alid, 100% basis, ib. Casala, Korinti "A" bos ib.	3.70 .90	.94
	"B" bgeib. Castor of, raw, No. 1, Braz. tanks. ibUSP 5-9 drns	.72 .32 .74	.76
	retd, deod., 5-9 dms	7B 75 74	Ξ
	dehydrated, unbodied, tanks to. Castor oit, acids dehydrated, dms lb.	.56 1.10 .797	- - 83
	ridnoleic sold	154.00	75.
5	castoreum, nat., cns	18.00 11.00	35.00
	ome., f.o.b	7.93 3.71	Ξ
	Caustic soda (see Soda, caustic). Cedarleaf oli, dma	17.60 3.60	4.00
)	Cerimi, prime drus	3.70 5.25 4.25	4.20 5.30
	Cadrylacetate, dist., dms	.48 60.00	,49 6 6.00
	Cellulose acetate, powd., bgs., t.t., divd.E	1.30	-
5	17% butryl content, bgs., t.l., ctvd.E	1.75 1.59	-
	50% butryl content, bga., divd. E D. 55% butryl content, bga., divd. E D. Calulose gum, pura, rugh via., bgs.,	1.81 1.83	=
5	f o b Hooswall Ve Ib.	1.60	1.70
•	std., low or medium vis., bgs., o.l., t.l., f.o.b. Hopewell, Va lb. Cerium concentrate CeO <sub>2</sub> , 50 lbs lb.	1.60 1.35	
	works.	5.40 4.20	
	77% CeO <sub>8</sub> drns., works	1.86	1.90 Va 1.27
	Chemornia flowers, Hungerian, cs., to.	4.26	4.50
Ò	Romen, os	4.94 2,70 545.00	-
	Chenopodiumoli, NF, cns	370.90 15.00 16.50	
	Chiles (see Pepper, red). " Chiorendia anhydride, lech., dms., t.i.,	1,30	,
.` •	works. Ib. Chlorinared paralifin, 40% chlorinare bulk, dwd., Zone 1		5 461/2
	60% chlorine, same beals b. 60% chlorine, same beals b. 70% chlorine, realinous, 50-lb.	.1	972 4077

11.17

CHEMICAL
PRICES
WEEK CHOING ALIQUET OF TO

CMC, technical, 96% minimum, low or

DDIAEC			CMC, puril., high vis., (see Cellulose gum). Coelter pitch, industliq., workston. 250.00 255.00
PRICES		ľ	roofing, 140-166, Federal specifica- tion, RP-391 Type 1, bulk
WEEK ENDING AUGU Chlorinated paratifin, Zone 2 prices an Zong 3 prices are 2c per lb. No			works
WEEK ENDING AUGU	ST 29	1986	Cobalt carbonate, powd., dms., fri.
Chiefertal accepts 7 - 2	_		Cobsit chloride, dms., 5,000 lbs. or more, ft. equaldlb. 4.15 -
Chlorinated paraffin, Zone 2 prices an Zone 3 prices are 2c per lb. hig	e 10. per ib her and i.t.	o. higher and drum prices	Cobelt hydrate, dms., t.l., frt. alkt lb. 6.20 10.55 Cobelt metal, 99.5-99.9%, 250-kilo.
are 5c per tb. higher Chlorinsled rubber, 6, 10, 20 cpe., bgs., t.l., divd. b. 40 cps, bgs., t.l., divd. b. 125 cps., bgs., t.l., divd. b. 300 cps., bgs., t.l., divd. b. Chlorine, tenks single units works, t.o.b., frt. equald. lon			dms., f.o.b. NY, Chicago ib. 11.70 - Coball naphthenais, ilq., 9% Co.,
t I., divd	1.69 1.92	-	dms., dlvd
1 25 cps., bgs., t.l., divd	2.60 2.75		Cobalt oxide, Imp., black, 72-73%
Chlorine, tanks aingle units works, f.o.b., frt. equald ion	195.00	200.00	Co
: Chloroscetic sold, mono, high purity, !: flake, 99% bulk f.o.b.			Coball phosphate powd. 32.1% Co., dms., dlvd
2-Chloro-4-amino totuene, tach lig	.59	-	dms
o-Chiorganifine, liquid, dms. o.l. f.o.b.	1.99	-	Cobalt sulfate, cryal., bgs., 10,000 bs. or more, irt. elid. E lb. 2.91 3.54
works	t.63 f.65	=	monohydrate, dms., frt. alld, lb. 4.56 6.02 Cobalt tallate, 6% Co., dms., divd lb. 2.19 -
p-Chloroanline, solid, c.l., t.l., 1.o.b.   b.	1.70	-	Coclians bark, bis
o-Chlorobenzeldehyds, drns., I.I.,	2.45		Coconut oil (See Oila, Fata & Waxes market report.). Coconul oil acida, diatilled, t.c.,
p-Chlorobenzeidehyde, dms., 2,000 lbs. or more, works	3.94	2 86	1.o.b
o-Chlorobenzolc acid, dims. tt.i. wks lb. p-Chlorobenzolc ecid, dms., 500-ib.	3.90	3.85	Cod oil, f.o.b., Gloucester, Mass.,
lois or more, works	1.69	2.25	bulk
tech., consumers, tanks, divid	.341/2 .341/2	-	Codelne phosphate, USP, cns., 25 kilo lols kilo 640.00 -
NF tanks, min., consumer, 4,000 gals. divd	.351⁄2	-	lots
2-Chloro-4-nitroanline, paste, com- modily basis, dms., t.t.,			Codivercii, NF, dms
powd., same basisib.	3.09 8.16	-	Copalba oil, cne., dme
4-Chiero-2-nitroanline, paste, 172.5 mol. wt., commodily basis.			tech., dms., Ll., works lb
dms., f.l., l.o.b	2.25 2.70	-	100,000-lbaper-year con-
o-Chlorophenot, dme., c.i., frt.	2.00	2.40	tracts, works
p-Chrorophenol, dms., c.l., irt.	1.25	1.70	dense, 50-lb. bga., c.l., t.l., works 100lba. 109.30
Lo.b. works	1.25		#ght. ffuffy, 60 tb. bags, c.l., t.t., works 100 lbs. 109.30
equeld sold, Isnks, Itt.	.181/2		Copper chloride (cupric), anhyd., c.l.,
p-Chloro loluene. lech., tenka, works	1.00	-	Copper cyanide, tech. dms., 24,000-
Cholecalclierol, dry, 40,000,000 units per gram, kilo lote grn.		-	dms., t.l., works, frt.
Cholina bitariza te, cryst., 98% m/n., 50 kilo dms., f.o.b. Spring field,	24.00	- 1	equald
Mo	9.90	- 1	dm., fri. equald
aqueque, t.c., t.t., divd. E oi		- 1	divd., domestc, bess ib
Rockies	.28 .39	-	gms., frt. ald
Choline chloride, 60% dry supplement, bulk hopper cars lb.	.39	-	Copper nitrete (cuprio), purif., fieke, dms.,1.l., works b
bgs ,50,000 lb a .min	.40	-	Copper oleata, solid, 6% Cu. dms., works fri alidlb87
kilo, lota, I.o.b. Springlield, Mokilo.	5.00	- 1	Copper oxide, black (cuprio), dms., 60,000-lb. lots, works b. 1.21
Choline dinydrogen citrata, 98% min., 50 kilo kots, I.o.b. Springlield,		1	red (cuprous), cms., 97%, USN Type 1, (AA), 90,000-lb, lots,
Chroma green, CP extre light has	8.00	-	red, 90%, Type 2, same basis ib. 1.19 1.20
light, bgs., same basis	1.68 1.70	:	Copper-9-quinolinotale, 10%, tiq.
medium, bgs., earne besis ib. extra deep. CP., aarne basis eb	1.72 1.74	=	98% bge., c.l., f.o.b.
Rockles	.83	.89	CP, peniahydrate, cryst., dma., In.I.
Rockles	1.09	1.18	monohydraied, 95% Cu. dms. o.i. 90.00
frt. squaid.	1.18	_	besic box of works 100 bs. 75.10
grd., same basis	1.25	-	Contender oil, USP, dms ib. 22.00 28.00
Cirromium ijuorida, dins., t.l.,	.10	-	Rumanian
Chromium nitrate, dms., t.l., l.a.b., ib	.81 1.45	= 1	enid: New York
10% Metal soin., 500-lb. dms. same	.74	.86	tente
bgs. c.l	5.50	_	Com syrop 43 Se., tanks, 1.0.b.
pure, bgs., c.l	1.90 1.85	2.00 2.45	Cordina acetats, USP, dms., 5 klos
Cinnamon, H2	4.50 1.06	1.10	or more
Cinnamon bark oil, bote ib. Cinnamon leal oil, dms ib.	88.00 2.80	95.00	Collonsesd oil, acidulated (soan
Citral, nat., dms	8.50 3,18	9,85	slook), acid, 95%, lanks, N.Y
Citric acid, USP, hydrous, gran., 250- lb.dms., t.l.,	1,18 <sup>-</sup>	-	Controlled oil acids, dist., dins
Citric acid, USP, anhyd., gran. 250-lb. dms., 1.L. del	.86	_	Coumerin, NF X, cryst., over 600-b.
Citric acid annyde, powder bc. higher Citronelia oil, Ceylon, dms b.	2.12	2.24	Creosote, coglier, orade 1 Janks
Java, dms	4.50 4.30	Ξ.	son. 80/20, tenks, same beets and
Citronellal, 25-lb cana b. Citronellol drums, I.a.b b.	3.86 8.68	7.40	m-Cresol, 96-98%, drea, 11.1 c.b. 4.81
Citronellyl acel ata, dms b. Citronellyl formate, 25-lb, cns ib.	5.50 8.86	. 6.50	
Civet, artif., bots	20.00 500.00	=	Connect Control Dasie
Tennton	49,00	. 4	
dom., crushed, moisture-repel- ieni, bulk, o J., Tenn ton	24.00		p-Cresol, 98%, dms., Ll., Lo.b b
Cley Chine (see Kaolin). Cleaners, naphtha, 140° flash tanks			Cresylic soid, coeltar, down materials
New Jersey or New York,	1.40		tricresyl phosphate grades
Clove leaf of Indonesian, reg. dnts. kito Madagescar, reg	2.85 4.20	3.25	Cresvic acid, dom, metapera content
Clove bud oil, kilo Cloves, Brazil	2.20	[ [4] × 1	25% or less, tanks, trt. alid. to
Zanzibar	4.20 2.20	ir	Creating sign bulk of weeks
36 CHEMICAL MA		NG REP	ORTER September 1, 1986
			polygringt 7 1880

	<del></del>	<del> </del>				
-	O to rest pound 50/ retenents busin			Dupthyd harbitrato gold for a		
	Cuba root, powd., 5% retanona, basis, 50-lb. bgs., t.l., works b.	60	.14	Diethyl barbituric acid (see Barbital). Diethyl cerbonato, tankwagens,		
	Cumena, bulk, contract, f.o.b lb. Cumin sead, Indian, bgs lb. Cyanuric acid, dms., c.l., l.l. irt.	92	.95	t.o.b.works	1.40	-
	equald	1.16	1.37	divid	1.19	-
	hyde conient, dms lb. 96.5%, dms lb.	4.65 7.35	9.20	Diethyl othanolamine tech. 8c per ic. i Diethyl oxnisio. chis., c.l., f.o.b.	OWE.	•
	90-92%, dms	7.65 .9264	-	works	1.80 .82	
	Cyclohexanol tech., tenks, f.o.blb.	.52	.96%	odorless cosmotic grades, i.t., works	97%	-163
	Cyclohexanone tech., lanks, l.o.b. workslb.	.551		Diothyl suifate, tanks , in. elid E ib. Diothyl Thiomes, das., c.t., t.t.,	-59	-
	tanks, divd ib. Cyclohexylamine, lach., tanks,	.585	-	DI-2-eihyihexyi ad-paie (see Diociyi adir	2.48 pale).	•
	workslb.	.05	_	Diethyl toluamide. 95-97% min. meta. Isomer. dms., t.t., I o.b.		
				worksb. N.N-Dialhyl-m-tolulding, tach liq.,	275	٠
	7			dms. c l., l.o.b	3.19 3.10	:
	I <b>L</b>			Diethylamino.dms.c.l.,divdib.	1.15 1.02	:
			يسجين	N.N-Diethylentine, dms., c.L, E.L, I.o.b. works	1.83	_
	2,4-D acid, lech., 60-lb. bgs., o.l., t.l., works, frt. squaid lb.	1.10	1.25	tanks same basis ib. Dialhylbenzana, tanks, f.o.b. works ib.	1.75 .96	-
	2,4-D butyl ester, tech., 55-gal. dms., c.l., I.l., works, irt. equald ib.	1.30	-	Dt-2-ethylhexyl azeleta (see Dioctyl aze Di-2-ethylhexyl phthelals (see Dioctyl p	hthalate).	
	lanks, same basis	1.25	-	Disthylone glycol, tanks, divd. Eb. Disthylana glycol monobutyl ether.	29/2	.31
	works, irt. alidgal. Decyl alcohol, mixed isomers, tanks,	9.05	-	dms.,c.l., frt. alid. E lb.	-55 -57	-
	dvd	.32 .75	-	Diethylana glycol monoethyl ether, dms.,c.l., in. alld E ib.	.64	
	Defluorineted phosphate (tricalclum),	./3	-	tanka, Irt. alid. E	.56	-
	feed grads, 19% P. c.l., bulk, 1.o.b. works ton Denatured alcohol, ethyl, CD16, CD19,	195.00	229.00	dms., c.l., irt. alid lb. tanks, irt. alid	.82 .54	:
	tanks, divd. E	1.87		Diethylena glycol monobutyl ather ac- atete dms., c.t., dlyd. E ib.	.80	
	NOTE: Tenkcar sales require written a and Tobacco Tax Division.	ulhorizatio	n by Alcohol	tanks, divd. E		-
	Denatured alcohol, athyl, SD2B, tanks, divd. Egal.	1.91	_	atala, drns., c.t., iri. elid. E. ib. tanks, irt. elid	.72	:
	SD3A, tanks, divd. Egal. SD23A, tanks, divd. Egal.	1.791/2		Dialhylansiriamina, tanks, f.o.b. works	1.80	118
	SD23H, tanks, divd. E gal. SD29, tanks, divd. E gal.	1.89 1.93	Ξ	Diethylanamanna paniascatic acid, pentasodium salt solution,		
	SD30, tanks, divd. E gal. SD35A, tanks, divd. E gal.	1.72%		tank- cars/tankkrucks, in- equalized	.45	-
	SD40, tanks, divd. E	1.83	_	Digitoxin, USP, imp., botsgram Digitoxin aurate, dms., ton lotsib.	2.60 .321/2	30
	elhyi, opitonal formule, SD40, tanka, divd. E	1.824	_	Diglycol slearata, dms., t.t	1.10	12
	For snhyd, alcohol on above formulas, higher,	prices ere	12c. per gal.	Dihydroxyacatona, 50-kilo lots,	48.00	•
	West Coast divd. prices are the ser except in ideho, Oregon and W	ne as Eas	tem prices,	works	40.00 .60	5
	dilferential on tankcars is maint Desoxyephedrine hydrochleride (See	nanari Nanari		Di-isobutyi phthalaia tanks, divd. E. ib. Di-isobutyians, tanks, i.o.b. Hous-	.55	
	drochloride) Detergent alkylete, straight chain do-	reso trica i foti	otermie ny-	lon	.39%	-
	decylbenzena, tanks, barges, f.o.b			Di-isononyi phihalate, tanks, divd ib. Di-iso-ociyi ezelate, tanks, divd. E ib.	.90	-
	Dextrin, corn, canary dark, paper bgs., c.l., works 100 lbs.	.45	-	Di-iso-octyl phthelata, tanks, divd ib. Di-isopropanolamina, dns., c.l., irt.	.41 .86V2	
	white, peper bga., c.i., works	29.04	-	alid	.5815 1.17	:
	Dexirose, anhyd., coml., bgs., c.l., divd. New York 100 lbs.	27.43	-	Di-sopropylamine, dms., c.i. divd ib. lanks, same basis ib. Disauryl 3,3-thiodipropionate, dms., t.l.,	1.07	-
	USP epecial, 100-lb, box., c.l.	41.10	-	fr. ald	1.89 7.00	62
	dvd. New York 100 lbs. Dexirose, hydraled comi, bgs., c.l. dvd. New York 100 lbs.	48.60	-	Dimethyl anthranilats, dnis	15.80	-
	Western zona 100 lbs	24.25 25.90	Ξ	Dimethyl carbonate, dms, t.l., f.o.b.	8.95	-
	Diacelone elophol, acetone ires, tanks, dwd	.52	-	works. Dimathyl dichlorovinyl phosphete, 65-	.90	
	Discetyl, lievor grade, dmsib. Dismmonlum phosphale, fert. grads.	9.25	16.00	Qal. dma., I.o.b	1.80	1.9
. !	min. 18% N, 49% P. buik, c.l., f.o.b. Fla. works ton	140.00	145.00	tanks, divd, E	1.15	1.70
	Diammonlum phosphate, feed grade, 18% N, 20% P, bulk. c.l., f.o.b.			Dimethyl ethor, aerosol grade, tenks, divd	.38	
	Fia. workston	240.00 250.00	-	works	.65	•
	Diammonlum phospheta, tech., bgs., c.l., l.l., works, frt.			Dimothyl sobaosta, fanks, I.o.b works	2.28	25
	lood grade, bgs., c.l., f.l., same ba-	52.60	- :	Dimethyl sufiste, rot. dms., o.i., t.c.b. works	87	. :
	2,4-Di-tert-amylphanol, min. 95.6%,	57.76	-	b. Dimethyleutide, lanks, works lb.	1.09	12
	dms., c.l., U., works	1.04	-	Dimethylacetemide, bulk (.o.b	.78 .87%	•
	irt. alid (yelow 14), dms.,	6.20		Dimathylamine, 25% soin., lanks, frt. equald., 100% basis	,831/2	•
	MW 244 days 11 days	4.26		basis	83Vz	-
	2,6-Di-tert-Sutyl-p-Cresol (see Sutylate Olbutyl furnarate, tanks, f.o.b.	d hydroxyt	oluens)	anhyd., tanks, fri. equald ib. N,N-Dimethylanlline, t.l., f.o.b ib.	1.03	
	Works	70	.75	N.N-Dimethyliormamide, dms., o.l., t.L.	.57	i.
	Dibutyl sebacata lanks, works	.66 1.66	.54 1.85	f.o.b., works	1,22	. :
	tanks, same basis	1.12	-	2,4-Dinitroaniine, tons-lots, Lo.b lb. Dinitroaniine, orange toner, CP, bgs.,	5.20	٠
	2-6-Dichlorosnilina, flake dme	.36	.37	divd. E. of Rockles b. 2,4-Dinitrochlorobenzens, crystalizing		٠.
	fused dms. works	2.00 1.80	Ξ	at 47°, t.l., f.o.b. Charlotte, N.C.	.95	Į.
	dras of the business in	1.46	1.57	2,4-Dinitrophenol, 250-ib. dms., 1.o.b. Charlotte, N.C	1,85	
	G.L. I.I., divid	.52	-	WORKS.	.30	
. •	68% refd. dris. cl. same he ele h	.46		2,4-Dinifrolousne, dms., o.L. L., works		
	p-Dichicrobenzens, graded 300.15	.47	1, I.e.	Dicotyl adicate, tanks, fri. ald. E	96	
	tanks. Io., same hoste	.61 .49	.52	Dicotyl phinelete, tanks, divd		
	10.000 the or more markets.			1.4-Dioxane, lanks; Irt. ald. E Ib.	1,13	,
	Dicyclohexylemina dras 2.4-D).	4.00		Dipenteerythritol, bos. c.l., t.l., dvd.	1,21	
	ianka samehnele	1.85 1.25	· • ·	Dinantana steem dist Tenks, 1.0.0-	1.42	
•	divid	1.25.	17.0	FIR. WORKS	26	
	88% tanks works	.35		Dip of (see Tar acid cil). Diphenhydramine hydrochorde, USP, dem., 1,000-kilo lots, dma.		
	Diethenniamine la little and b.	. 44	47	CONT.		24
	DOVP (see Offrethyl dichlorovinyl phoep	41	Notice.	Diphenyl, 99.9%, bgs., c.i., 10., works,,,,,	88	
ř - :			13.	Larry WORKS	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	¥

	_				
Dighenyl coide, lech. grade, lanks Dighenylamine, reld., flake, bgs.,	, lb. t.l.,	1,11	1.20	Epinephrine base, syn., USP, bots., 100-gram lotsgram .60 Epoxyrasia, liquid, bulk tanks, divd, b. 1.31	
Military and the same	. lb.	1.25 1.00	-	Epoxyrasin, liquid, bulk tanks, divd b. 1.31 Solid, bga., I.I b. 1.29 Epsom selt (see Magnesium sullete).	
ociviated, nake, uga-		7.89	-	Erythorbic acid, powd., gran., 100 lb. dms., t.l. or mixed I.l. I.o.b.	
Dekenyiguandne, bog., t.i., frt. i Dipkanyihydanloin-sodium U	SP.	2.52		worke	4.25
trachage 4 4 -di-isocyan	ala,	5.00	5.60	divd., Ill., Md., Ky., E. States, Minneapolis, N.C., Ohlo, St.	
DOMINATO TOTAL DAY	.lb.	.01	-	Louis, St. Paul, Va., W. Va. lb75 Ester gum, wood-rosin lype, dms., ct., sema basis	
Opropriene giveol, tanks, irr. and.	her,	.45 .54		Ethyl ocetate, syn., 95-89%, lanks, divd	
One sema hade	.lb.	.49	-	89%, tanks, divd lb	1½ .42½ 3 -
Diotolyguanidhe, powd., dms., in. sid Diotolyithigures, lech., solid, d		2.92	-	tanks, divd	
II, M. Bid.	. Ro.	3.11 .60	.63	Ethyl alcohol, syn., 190 pf., USP tax free, tanks, dvd. E gel. 1.5; Ethyl alcohol, absolute, 200 pf., tax free pric	5 - see 12o blobe
Dundecyl phthalate, 18th s, divo.	anka	.59	0.50	then 190 pf., tax free. Ethyl sicohol, fermentation, tenks,	
WORKS	lb.	2.75 3.00 .76√₂	2.50	I.o.b. works	centives.
Dodecanot, syn., tanks, f.o.b	нлο.,	.89		Ethyl elcohol, denel. (see Danatured elcohol, et Ethyl p-aminobenzoate, NF (see Benzocaine). Ethyl benzoate, dms	
Colecytoenzens (see Delargem A	vikylala). elid.			Ethyl benzoata, dms	_
One mater certified colors for	lood.	.49	.63	Ethyl cellulose, standard vis., 7 cps.	1.50
evious fit prepaid or a	ild			bgs., t.l., irt. equald. Eib. 4.5 etandard vis., 10, 20, 45, 100 cps.,	
Bias, FDAC, No. 1	Rb.	21.20 29.15	22.80 29.22 95.00	t J., Irt. equald. E ib. 4.1 medium via., 50, 70, 100 cps., I J., Irt. equald. E	
Green, FD&C, No. 3		49.50 24.00 7.45	24.50 7.85	USP vis., 7 cps bgs., I.L., Irt. equald.	
Yelow, FD&C, No. 6 No. 6 Dyes, coalley, certified colors for c		6.45	8.75	USP 10,20,45,100 bgs., t.l., Irt. equald.Eb. 4.	
and cosmetics. 100-lb	, lots			VSP (medium) 50,70,100 bgs., t.t., Frt. aquald. E b. 4.5	
Green, D&C, No. 5	ID.	39.50 42.80	:	tenka, frt. alid	26 .291 24 .291
Red, D&G, No. 4	lb.	18.85 39.90	Ξ	Ethyl athenolamines, mixed, dms., t.l.,	23 -
No. 19 No. 22 No. 28	1b.	38.25 12.45 59.95	Ξ	tenks, divd. E	16 - 49 -
No. 20 No. 33 Yellow, D&C. No. 7	Ib.	48.95 21.00	-	2-Ethylhexolc scid, dms., c.l., t.l., dlvd.	25 4.76
Ho. 8 No. 10	lb.	20.55 49.80	49.95	tanka divd. E	.63 - .67 -
No.11 Dyes, cositer, for general use in	lb.	35.25	-	2-Ethylhaxyl acryleta, straighl or mixed, tanks, frt. alid. E ib 2-Ethylhexyl alcohol, tanks, divd ib.	.79.5 - 35 -
and paper dyeling (by Co dex Name), i.o.b. works	olor In-			Ethylingiool, syn 55-gal dms lb . 6	.25 - .60 -
AB&1 Bue black ex conc Dyes, ABI9 Blue 2Q	lb.	5.75 5.48	-	Ethyl knalyl scelsto, syn., 55-8al	.65 -
A BI 45 Alzarina Biu SAP 150° A BI 90 Alzarina Br. Cy Q A BI 13 Nevy 5 R.	lb.	19.85 14.13 8.55	Ξ		.06 ~
A Gr 16 Gast 20 333%	lb.	22.12 3.72	-		2.00- 1.92 -
A Or BRO Ex. Conc.	tb.	4.00 4.30	-	n-Ethyl-a-nephthylamina, dms worksib.	1.04 ~
A R 26	lb.	8.15 5.13	Ξ	Ethyl oxalata (see Dietnyl oxalata).	-1
AR 14 Azo Rubine 133% AR 18 Scarlet 4R Conc. AR 88 Fast Red A. Conc.	lb	9.65 5.45	-	Ethyl silicate dial. (see Tetraethyl orthositicate Ethyl silicate, 40% evellable SID <sub>2</sub> , dms., I.I., I.o.b. workslb.	u.45 1.46
AV 17 58NS Conc	lb,	8.85 4.50 8.75	Ξ.	N.Ethylan-tolukling, tech., Ild., dms.,	.39 –
AY 17 Feet Links Vol. 30	lb.	12.22 5.59	-	c.l. f.o.b	3.18 - 3.10 - 2.85 2.9
8BI9 Zinc Free	lb.	6.18 10.40	Ξ	Ethyl vanillin 100 lb. dms., 500 lbs. or	2.85 2.9 3.50 -
654 4 Bamark Brown R Ex. C B G 1 Jade Crystals B Gr 4 Macritle Green Cryst 8 V 1 Method Wildon		4.42 9.55	-	26 lb. dms., 600 lbs. or more lb.	9.76 – 4.00 14.5
9V 10 Stockering 2 E.	ID,	8.90 8.80	Ξ	Ethylamine (see Mono-Di- and Tri-)	
DRISN Blue 89 Cone	lb.	10.95 10.10 4.02	Ξ	works	1.66 - 1.56 -
DBI 8 Auritra Conse	lh.	0.25	=	Ethylone, contract, divd	.22 .2
Fast Right OD 4500	10.	2.65		Ethyleno brassylate, dms	6.00 18.2
O Br 230 Reein Fast Brown 200%	BRNS	7.23	-	WORKS.	1.30 1.3 7.66 8.2
GG 26 Resin Fast Green Gt DR 24B Ex. Conc. OR 31 B#Eart - Red 12B Cc OR 80 Fast Red 8B At	lb.	8.15 7.06 6.18	Ξ	Ethylenedlemina fetrasostic acc, ter- tresodium salt, soin., i.c., t. i., irt. equald	.361/2
OR 89 Fast Red 68L N OR 81 Paper Red 88L P OR 251 Fast Scarlet AV OC 102 Fast Orange Web	lb.	8.15 0.05	=	Ethylene dibromide dms., o.i., iri.,	.36 .4
O Or 102 Fast Orange WSP	Liq. lb.	6.28 2.47	-	Isnke, frt. equald	.32
Y 4 Grilliani Peper Y	sil 3QX	11.28		works.	.17 .1
O Y 11 Stillbane Yellow		1.75	Ξ	elid. ib. Ethylene glycol, monobutyl sfher farks, divd. E	411/2
D Y 41 Fasi Yellow RG 200% OY27 Rasin Fast Yellow	L Conc	3.03	-	Elhylene glycol monoamyr ainer.	:.61
DERI Speciar Da	эцю	. 14.40	1.	Ethylene glycol monomornyl eurol	.34
De Hoten	ID	. 4.26		Ethylene given morking for ald E b.	.64%
Day 3 Yellow G Day 54 Yellow G Day 54 Yellow G Da O 37 Orange GRA Da O 37 Orange GRA	tb	3.85 8.94 4.81		Ethyleno glycol monoethyl ether ac- state, tanks, it, aid., E ib.	. 851/2
- E ULV 1 ARM Death	- / 10	. 0.//		Ethylene glycol monomethyl ether so- stale, tanks; frl. eld. E b. Ethylene oxide, tanks I.O.b b. Ethylene oxide, tanks I.O.b b.	.43 .39
Da 91 102 Blue 8 GL F		. 10.06			7.50
VG1 belo	1	). 22.80 ). 4.10	:	Eucelyptus 64, Portuguess to kilo 56d, 70-75%, dms kilo 60, 55%, dms kilo	5,60 8.25
VBK 25 Offve TA Paste.	l	o. 5.50 o. 5.86		Eucstypted, NF, data. Portuguesa kan. Eucstyptus dil, Portuguesa NF, redif- fed, 70-75%, dris. kto NF, rediffed, 80-85%, dris kto Eucenol, USP, dris. kto	7.55
	•		!	The state of the s	
1. 1.1.1.1					Andrews Market
Endin, lech_ 95-99%, dries,		h :::	10 c	Ferinal bill, sweet, USP, ora kilo	9.00
Sphedring Investment	0		5	Fennelseed, Fgypt	80 25
Emedine a data 1,000 kg	IF arve		5 40.2	Fenudreek eeed Indian, 280.50	\$8.00
bee than 1,000 kito.		6 43.0	0 45,2	and Re moto grade	9.10
A THE STREET	1.10	b. 8			11377

- 1	ceni basis, f.o.b. works, tank	
Į	workston 179.00 256.00   Ferric nitrate, cryst., dms., t.l., I.o.b. lb64 -	1 -141
- 1	Ferric oxalate, tech., gran., 50-lb. dm.,	UNI
Į	I.o.b. works	
-	Ferric phosphate, FCCg insoluble pow-	BBI
١	der, dms, 10,000 lbslb. 1.10 1.15 Ferric pyrophosphale, soluble, purif.,	UKI
	pearis, 60-lb. dm lb. 1.11 -	rni
	Ferric rasinate, precip., 9.75% Fa. dms., ton lots int. alid ib	
	Ferric sullate, parity hydrated, 100-tb.	WEEK EN
	bgs., c.l., works ton 141.00 -	
	bulk, works	Glue, bone, extra
	graen gran. 100 tb. dms.,	grams, bg: 85 jellygnems, b
	2,000 lb. min., i.o.b. shipping pt	116 jellygrama, b
	2c. per pound surcharge for shipments W. oi Derwer	135 jellygrams, b 194 jellygrams, b
ır	Fsrric-ammonlum oxelete, fine gran., 250-lb. dms., t.l., I.o.b. works.	192 jellygrams, t
	Eb. A2 -	220 jellygrems, t
	Ferric hydroxyethylane diaminairi- acetic edd, industrial grade.	Give, hide, 109 jetygrams, b
	aodium sali, soin., 4.5% Fe,	135 jellygrama, i
	t.o., t. t., f.o.b. works lb55	164 jellygrams, i 192 jellygrams, i
	tion, 5% Fs, t.c., t. t., f.o.b.	222 jeliyorams,
	works,	251 jeilygrams.
	Ferrous Huoborate IIq. conc., dms., t.l., works, frt. equaldlb64 ~	283 jellygrame, 316 jellygrams.
	Ferrous gluconate, NF, t.l., works E.fb. 2.26 -	347 jellygrems, t
	Ferrous naphthensis, IIq., 6%, Fe. dms.,divdb. 1.17 -	379 jellygrams, 411 jellygrams,
	Ferrous suifate, moist, bulk, t.l. I.o.b.	444 jeliygrams
	workston 30.00 - heptahydrate, gran., bulk, t.l., I.o.b.	477 jellygrams
	workston 145.00 150.00	Glutemic sold, 6 lots, frt.
	monohydrate, gran., bulk., l.t., l.o.b. workston 170.00 190.00	Glycerine, nat., r
	USP, powd., 400-lb. dms lb	U9P, CP, nat.
12	cryst., 250-lb. dms lb	Syn. 96%, tan
•	Siberia, dms	Syn. 99.5%, ta Glycina (see Ami
	Fish of, reld., sikall, tanks, c.l lb	Glyceryl gualace
	light, cold-pressed, dms., c.l lb	1.o.b.
	tanks	Glycolic acid(se Glyoxal 40%
	Fishmaal, dom., manhaden, 90% protein grd., bulk, 1.o.b. Al-	divd
	lantic port ton 295.00 -	Grape Iruit off, F
	f.o.b. Guli portton 290.00 - imp., Chilean, 65% protein min.,	Calil., dms
	bulk, c.l., t.l., ex whse., l.o.b.	Grsphite, amou
	Atlantic and Guilt ports ton. 285.00 - Fluoboric acid, dms , I.I., works, Irt.	cryst., 66-9
	equald 10 70 -	ex wh
	Fluorocerbon, No. 11 bulk, tanks, delvd	Graphite, crys
	No. 12, bulk, same basis Ib	96-96%
	No. 22, bulk, same basis lb. 1.05 1.14 No. 113, bulk, same basis lb	Whse
	No. 114, bulk, same basis ib. 1.02 1.08	Graphite, amo
	Fluosificio acid (see Hydrofluosificio acid).	earlw Wheel
	Formaldehyde, 37% methanol free (un- inhibited) divd., gulf lb	Graphite, flak dms.,
	44-45% (1% mathenol) lenks,	No. 2, 91
	37% (Inhibited 7% mathanol,	whse. Grease (See C
5	dlvd	Grease oil (8ee
	37% (inhibited 11-15% methanol) tenks, divd	Gustacol, tech.
	Formamide, tanks, f.o.b	Conn.
0	Formic scid 90% tanks, 1.0.b.	NOTE: Purific
	works	Guer gum, e
	Fructose, crysl., 19,000 kilos or more,	ship't.
0	rims	same
	Furnario ecid, food grade, bgs. t.l., frt. equald. Eb76½ .77½	-
	tach, grada, bga., t.l., f.O.D. III.	
	equaldb. Coder Repids,	
23 164	lowe por Helia Ciboa, Fill. ID. 179	
5	Furfuryi alcohol, tenks, f.o.b, Memohis, Tenn. and Omaha, Neb lb	·   # #
105	I diving the Official Land	
5		Heliotropin, da
		Hemiock oil (st
		Henbane Isave Heptana, Indu
6		mont
2		85%_tsn
	Name and Address of the Owner, where the Owner, which is th	. Tex.
77	G salt, dins, frt. slid. 100% basts b. 2.30	. Heptanoicack
179	Gallio acid, 400-kilo lots	
	Gatio acid, 400-kilo lots	Heptenoicack I-Hexadecano Hexahydroph
179	Garlo sold, 400-kilo lots	Heptanoic ack I-Hexadecano Hexahydroph dms,
179	Galio acid, 409-kilo lote	Heptanoic ack I-Hexadecano Hexahydroph dns, Hexametriyler 0.1,1
	Gaflo acid, 409-kilo lots lais 25,05 acid. Gaflo cil, dms., Egyptian lais 85.00 105.00 Geistin, edible, 100 AOAC test, dms., l.i., dwd lb. 1,50 1.75 125 AOAC test, dms., lil. lb. 1,85 1.95 156 AOAC test, dms., lil. lb. 1,85 1.95 2.06 AOAC test, dms., lil. lb. 1,95 2.05 20.0 AOAC test, dms., lil. lb. 2,05 2.15	Heptanole ack I-Hexadecano Hexahydroph dms, Hexametriyler O.I., gran. d por. bg
179	Gallo acid, 409-kilo lote lab 85.00 105.00 Garlo oil, dms., Egyptlan kilo 85.00 105.00 Geigtin, edible, 100 AOAC test, dms., 111., divd lb. 1.50 1.76 1.85 1.95 1.55 AOAC test, dms., l.l. lb. 1.85 1.95 1.75 AOAC test, dms., l.l. lb. 1.85 2.05 2.16 220 AOAC test, dms., l.l. lb. 2.05 2.16 2.25 AOAC test, dms., l.l. lb. 2.05 2.16 2.25 AOAC test, dms., l.l. lb. 2.10 2.25 2.35 2.35 AOAC test, dms., l.l. lb. 2.20 2.35	Heptanolcack I-Hexadecano Hexahydroph dms, I-Hexarradhyler O.I., I. gran, d pdr. bg powd, Hexane, Indus
	Gallo acid, 409-kilo lote bid acid of the lot of the lo	Heptanok ack I-fexadecano Hexahydroph dms, I-fexamethyler oo.1.1 gran, d pov. bg powd. Hexane, indue 65%, I ani
	Gallo acid, 409-kilo lote bid acid acid acid acid acid acid acid ac	Heptanolcack I-Hexadocano Hexahydroph drive, Hexamethyler of, I. gran. di por. bg powd. e Hexane, indue 65 %, I ani Tex. I-Hexanol, syn
一 いん いっぱん	Gallo acid, 409-kilo lote bid acid acid acid acid acid acid acid ac	Heptanok ack I-fexadecano Hexahydroph dms, I-fexamethyler o.i.i. gran. di pok. bg powd. d. Hexans, indue 65 %, I ani Tex I-fexanol, syn Hexanol, syn
一 いん いっぱん	Gallo acid, 409-kilo lote bid 20,00 acid oil, dms. Egyptian bid 85.00 105.00 Geratio il, dms. Egyptian bid 65.00 105.00 Geratin, edible, 100 AOAC test, dms. b. 1.50 1.76 1.85 1.25 AOAC test, dms. l.l.l. b. 1.85 1.95 1.75 AOAC test, dms. l.l.l. b. 1.85 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.0	Heptanolcack I-Hexadocano Hexahydroph drive, Hexamethyler of, I. gran. di por. bg powd. e Hexane, indue 65 %, I ani Tex. I-Hexanol, syn
一 いん いっぱん	Gallo acid, 409-kilo lote bid 20,00 acid oil, dms. Egyptian bid 85.00 105.00 Geratio il, dms. Egyptian bid 65.00 105.00 Geratin, edible, 100 AOAC test, dms. b. 1.50 1.76 1.85 1.25 AOAC test, dms. l.l.l. b. 1.85 1.95 1.75 AOAC test, dms. l.l.l. b. 1.85 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.0	Heptanolcack I-Hexadecano Hexanydroph dris, Hexamatriyler O.I.I. gran. d. por. bg powd. Hexane, Indue 65 %, Iani Thexanol, syn Hex yl alool tarks p-Hexyl met work
一 いん いっぱん	Gallo acid, 409-kilo lote bid 20,00 acid oil, dms. Egyptian bid 85.00 105.00 Geratio il, dms. Egyptian bid 65.00 105.00 Geratin, edible, 100 AOAC test, dms. b. 1.50 1.76 1.85 1.25 AOAC test, dms. l.l.l. b. 1.85 1.95 1.75 AOAC test, dms. l.l.l. b. 1.85 2.05 2.05 2.05 2.05 2.05 2.05 2.05 2.0	Heptanok ack I-fexadecano Hexahydroph dms, I-fexamethyler od. jeran, d por. bg powd. Hexane, Indue 65%, Iani Tex. I-fexanol, syn Hexy! aloo! tanka p-Hexy! meit Hexy!ene glyc
一 いん いっぱん	Gallo acid, 400-kilo lote. Idio 88.00 105.00 Garlo 0I, dms., Egyptian. Idio 88.00 105.00 Geratin, edible, 100 AOAC test, dms., I.I., divd. Ib. 1.50 1.76 1.85: 155 AOAC test, dms., I.I. Ib. 1.85 1.95 156 AOAC test, dms., I.I. Ib. 1.85 2.05 175 AOAC test, dms., I.I. Ib. 1.85 2.05 2.05 AOAC test, dms., I.I. Ib. 2.05 2.16 2.25 AOAC test, dms., I.I. Ib. 2.00 2.25 2.50 AOAC test, dms., I.I. Ib. 2.20 2.35 2.75 AOAC test, dms., I.I. Ib. 2.30 2.46 300 AOAC test, dms., III. Ib. 2.30 2.46 Gentian violei (see Methyl rossanifine chioride), Gerariol, syn., 90-92%, dms. Ib. 5.25 1.95 2.65 Gentian violei (see Methyl rossanifine chioride), Gerariol, syn., 90-92%, dms. Ib. 5.75 Gentium oil, Moroccan Ib. 3.50 27.50 Bourbon, Ib. 3.50 27.50 Gentium oil, Moroccan Ib. 3.300 38.00 Bourbon, Ib. 3.300 38.00 Grinese	Heptanolcack I-fexadecano Hexanydroph dris, Hexarriadiyler O.I.I. gran. d. por. bg powd. Hexane, Indue 65 %, Iani Thexanol, syn Hex yf alool tarks p-Hexyl met work Hexylene glyc Hexylene glyc Hexylene gryc
一 いん いっぱん	Gallo acid, 400-kilo lote. Idio 88.00 105.00 Garlo 0I, dms., Egyptian. Idio 88.00 105.00 Geratin, edible, 100 AOAC test, dms., I.I., divd. Ib. 1.50 1.76 1.85: 155 AOAC test, dms., I.I. Ib. 1.85 1.95 156 AOAC test, dms., I.I. Ib. 1.85 2.05 175 AOAC test, dms., I.I. Ib. 1.85 2.05 2.05 AOAC test, dms., I.I. Ib. 2.05 2.16 2.25 AOAC test, dms., I.I. Ib. 2.00 2.25 2.50 AOAC test, dms., I.I. Ib. 2.20 2.35 2.75 AOAC test, dms., I.I. Ib. 2.30 2.46 300 AOAC test, dms., III. Ib. 2.30 2.46 Gentian violei (see Methyl rossanifine chioride), Gerariol, syn., 90-92%, dms. Ib. 5.25 1.95 2.65 Gentian violei (see Methyl rossanifine chioride), Gerariol, syn., 90-92%, dms. Ib. 5.75 Gentium oil, Moroccan Ib. 3.50 27.50 Bourbon, Ib. 3.50 27.50 Gentium oil, Moroccan Ib. 3.300 38.00 Bourbon, Ib. 3.300 38.00 Grinese	Heptanok ack I-fexadecano Hexahydroph dms, I-fexamethyler o.i.,I. gran. di pok. bg powd. d. Hexans, Indus 65 %, I ani Tex. I-fexanol, syn Hex yf aloo'b tanks p-Hexyl met Hexylene glyc
一 いん いっぱん	Gallo acid, 400-kilo lote. Idio 88.00 105.00 Garlo 0I, dms., Egyptian. Idio 88.00 105.00 Geratin, edible, 100 AOAC test, dms., I.I., divd. Ib. 1.50 1.76 1.85: 155 AOAC test, dms., I.I. Ib. 1.85 1.95 156 AOAC test, dms., I.I. Ib. 1.85 2.05 175 AOAC test, dms., I.I. Ib. 1.85 2.05 2.05 AOAC test, dms., I.I. Ib. 2.05 2.16 2.25 AOAC test, dms., I.I. Ib. 2.00 2.25 2.50 AOAC test, dms., I.I. Ib. 2.20 2.35 2.75 AOAC test, dms., I.I. Ib. 2.30 2.46 300 AOAC test, dms., III. Ib. 2.30 2.46 Gentian violei (see Methyl rossanifine chioride), Gerariol, syn., 90-92%, dms. Ib. 5.25 1.95 2.65 Gentian violei (see Methyl rossanifine chioride), Gerariol, syn., 90-92%, dms. Ib. 5.75 Gentium oil, Moroccan Ib. 3.50 27.50 Bourbon, Ib. 3.50 27.50 Gentium oil, Moroccan Ib. 3.300 38.00 Bourbon, Ib. 3.300 38.00 Grinese	Heptanolcack I-fexadecano Hexanydroph dris, Hexarriadiyler O.I.I. gran. d. por. bg powd. Hexane, Indue 65 %, Iani Thexanol, syn Hex yf alool tarks p-Hexyl met work Hexylene glyc Hexylene glyc Hexylene gryc
一 いん いっぱん	Gallo acid, 400-kilo lote. Idio 88.00 105.00 Garlo 0I, dms., Egyptian. Idio 88.00 105.00 Geratin, edible, 100 AOAC test, dms., I.I., divd. Ib. 1.50 1.76 1.85: 155 AOAC test, dms., I.I. Ib. 1.85 1.95 156 AOAC test, dms., I.I. Ib. 1.85 2.05 175 AOAC test, dms., I.I. Ib. 1.85 2.05 2.05 AOAC test, dms., I.I. Ib. 2.05 2.16 2.25 AOAC test, dms., I.I. Ib. 2.00 2.25 2.50 AOAC test, dms., I.I. Ib. 2.20 2.35 2.75 AOAC test, dms., I.I. Ib. 2.30 2.46 300 AOAC test, dms., III. Ib. 2.30 2.46 Gentian violei (see Methyl rossanifine chioride), Gerariol, syn., 90-92%, dms. Ib. 5.25 1.95 2.65 Gentian violei (see Methyl rossanifine chioride), Gerariol, syn., 90-92%, dms. Ib. 5.75 Gentium oil, Moroccan Ib. 3.50 27.50 Bourbon, Ib. 3.50 27.50 Gentium oil, Moroccan Ib. 3.300 38.00 Bourbon, Ib. 3.300 38.00 Grinese	Heptanolcack I-fexadecano Hexanydroph dms, Hexametrivier o.i.,I. gran. di por. bg powd. Hexane, Indue 85 %, I ani Tex I-fexanol, syn Hexyl alooh tanks p-Hexyl met work Hexyleachchia Hexyleachchia Homatropine 1004 Homatropine 250 c
一 いん いっぱん	Gallo acid, 400-kilo lote. Idio 85.00 105.00 Garis oil, dms., Egyptian. Idio 85.00 105.00 Geistin, edible, 100 AOAC test, dms., I.I., divd. Ib. 1.50 1.76 125 AOAC test, dms., I.I. Ib. 1.55 1.85 156 AOAC test, dms., I.I. Ib. 1.85 2.05 175 AOAC test, dms., I.I. Ib. 1.85 2.05 200 AOAC test, dms., I.I. Ib. 2.05 2.16 225 AOAC test, dms., I.I. Ib. 2.02 2.35 275 AOAC test, dms., I.I. Ib. 2.20 2.35 275 AOAC test, dms., III. Ib. 2.30 2.46 300 AOAC test, dms., III. Ib. 2.50 2.65 Gentian violei (see Methyl rossanifine chioride), Geranici, syn., 90-92%, dms. Ib. 5.75 Geranici oil (see Methyl rossanifine chioride), Geranici oil (see Methyl rossanifine chiorid	Heptanolcack I-fexadecano Hexanydroph dris, Hexarriadiyler O.I.I. gran. d. por. bg powd. Hexane, Indue 85 %, I ani Tex I-fexane, I mel Hexyl aloo tanks p-Hexyl mel work Hexylere glyc Hexylerenolcan Homatropine 250 c Homatropine Hortopine
一 いん いっぱん	Garlo oid, dras, Egyptian. Isio B 5.00 105.00 Garlo oil, dras, Egyptian. Isio B 5.00 105.00 Geigtin, edible, 100 AOAC test, dras. 1.1., drvd. Ib 1.50 1.76 125 AOAC test, dras. I.1. Ib 1.76 1.85 175 AOAC test, dras. I.1. Ib 1.85 2.05 175 AOAC test, dras. I.1. Ib 2.05 2.16 200 AOAC test, dras. I.1. Ib 2.05 2.16 225 AOAC test, dras. I.1. Ib 2.00 2.25 250 AOAC test, dras. I.1. Ib 2.20 2.35 275 AOAC test, dras. I.1. Ib 2.30 2.46 300 AOAC test, dras. I.1. Ib 2.50 2.66 Gantian violet (see Methyl rossanisha chioride). Geraniol, sym. 90-92%, dras. Ib 6.25 300 AOAC test, dras. Ib 5.75 Geraniom oil, Morocoan Ib 3.50 Geraniol, sym. 90-92%, dras. Ib 5.75 Geranion oil, Morocoan Ib 33.00 38.00 Chinese Chinese Chinese Ib 65.00 Egypt. Turkish (see Paimarosa oil) Geranyl formate, syn. orns. Ib 9,44 6.00 Egypt. Glassifie, Sp., bulk, c.1. [a,b. Bo Glasorite, Sp., bulk, c.1. [a,b. Bo	Heptanolcack I-fexadecano Hexanydroph dris, Hexarriadryler O.I.I. gran. d. por. bg powd. Hexane, Indue 65 %, Iani Thexane, Indue 65 %, Iani Thexane, Indue phexyl aloo tarks p-Hexyl met work Hexylene glyc Horehound in Hydrazine in Hydrazine in
一 いん いっぱん	Garlo oid, dras, Egyptian. Isio B 5.00 105.00 Garlo oil, dras, Egyptian. Isio B 5.00 105.00 Geigtin, edible, 100 AOAC test, dras. 1.1., drvd. Ib 1.50 1.76 125 AOAC test, dras. I.1. Ib 1.76 1.85 175 AOAC test, dras. I.1. Ib 1.85 2.05 175 AOAC test, dras. I.1. Ib 2.05 2.16 200 AOAC test, dras. I.1. Ib 2.05 2.16 225 AOAC test, dras. I.1. Ib 2.00 2.25 250 AOAC test, dras. I.1. Ib 2.20 2.35 275 AOAC test, dras. I.1. Ib 2.30 2.46 300 AOAC test, dras. I.1. Ib 2.50 2.66 Gantian violet (see Methyl rossanisha chioride). Geraniol, sym. 90-92%, dras. Ib 6.25 300 AOAC test, dras. Ib 5.75 Geraniom oil, Morocoan Ib 3.50 Geraniol, sym. 90-92%, dras. Ib 5.75 Geranion oil, Morocoan Ib 33.00 38.00 Chinese Chinese Chinese Ib 65.00 Egypt. Turkish (see Paimarosa oil) Geranyl formate, syn. orns. Ib 9,44 6.00 Egypt. Glassifie, Sp., bulk, c.1. [a,b. Bo Glasorite, Sp., bulk, c.1. [a,b. Bo	Heptanok ack I-fexadecano Hexahydroph dms, Hexamethyler o.i.,I. gran. d. por. bg powd. d. Hexans, Indus 65 %, Iani Tex. I-fexanol, syn Hex yf aloo's tanks p-Hexyl met Hexylesporin Homatropine 100- Homatropine
一 いん いっぱん	Gaflo acid, 409-kilo lots bib 25,00 105.00 Garlo Gi, dms. Egyptian bib 85.00 105.00 Geigtin, edible, 100 AOAC test, dms. 1.1., divid. b. 1.50 1.76 125 AOAC test, dms. I.1. b. 1.85 1.95 175 AOAC test, dms. I.1. b. 1.85 2.06 175 AOAC test, dms. I.1. b. 1.95 2.05 200 AOAC test, dms. I.1. b. 2.05 2.16 226 AOAC test, dms. I.1. b. 2.02 2.35 275 AOAC test, dms. I.1. b. 2.20 2.35 275 AOAC test, dms. I.1. b. 2.30 2.45 300 AOAC test, dms. I.1. b. 2.50 2.65 Gentian violal test Methyl rossanishe chloride). Geraniol, sym. 90-92%, dms. b. 5.25 rist, 90-82%, dms. b. 5.25 Geraniom of, Morocoan b. 24.00 27.60 Geraniom of, Morocoan b. 24.00 27.60 Geraniom of, Morocoan b. 33.00 38.00 Chinese b. kild 67.00 85.00 Egypt. b. 665.00 Geranyl formate, syn., dms. b. 10.85 Geranyl formate, syn., dms. b. 10.80 Geranyl formate, syn., dms. b. 1	Heptanolcack I-fexadecano Hexanydroph dris, Hexarriadryler O.I.I. gran. d. por. bg powd. Hexane, Indue 65 %, Iani Tex I-fexane, Indue powd. Hexyl aloo tanks p-Hexyl met work Hexylene glyc Horehound in Hydrazine h ydrazine h add 55 get Hydrazine h exylene glyc H exyl
一 いん いっぱん	Gaflo acid, 409-kilo lots bib 25,00 105.00 Garlo Gi, dms. Egyptian bib 85.00 105.00 Geigtin, edible, 100 AOAC test, dms. 1.1., divid. b. 1.50 1.76 125 AOAC test, dms. I.1. b. 1.85 1.95 175 AOAC test, dms. I.1. b. 1.85 2.06 175 AOAC test, dms. I.1. b. 1.95 2.05 200 AOAC test, dms. I.1. b. 2.05 2.16 226 AOAC test, dms. I.1. b. 2.02 2.35 275 AOAC test, dms. I.1. b. 2.20 2.35 275 AOAC test, dms. I.1. b. 2.30 2.45 300 AOAC test, dms. I.1. b. 2.50 2.65 Gentian violal test Methyl rossanishe chloride). Geraniol, sym. 90-92%, dms. b. 5.25 rist, 90-82%, dms. b. 5.25 Geraniom of, Morocoan b. 24.00 27.60 Geraniom of, Morocoan b. 24.00 27.60 Geraniom of, Morocoan b. 33.00 38.00 Chinese b. kild 67.00 85.00 Egypt. b. 665.00 Geranyl formate, syn., dms. b. 10.85 Geranyl formate, syn., dms. b. 10.80 Geranyl formate, syn., dms. b. 1	Heptanolcack I-fexadecano Hexanydroph dms, Hexametrivier o.i.,I. gran. di pok. bg pok.
一 いん いっぱん	Gaflo acid, 409-kilo lots bib 25,00 105.00 Garlo Gi, dms. Egyptian bib 85.00 105.00 Geigtin, edible, 100 AOAC test, dms. 1.1., divid. b. 1.50 1.76 125 AOAC test, dms. I.1. b. 1.85 1.95 175 AOAC test, dms. I.1. b. 1.85 2.06 175 AOAC test, dms. I.1. b. 1.95 2.05 200 AOAC test, dms. I.1. b. 2.05 2.16 226 AOAC test, dms. I.1. b. 2.02 2.35 275 AOAC test, dms. I.1. b. 2.20 2.35 275 AOAC test, dms. I.1. b. 2.30 2.45 300 AOAC test, dms. I.1. b. 2.50 2.65 Gentian violal test Methyl rossanishe chloride). Geraniol, sym. 90-92%, dms. b. 5.25 rist, 90-82%, dms. b. 5.25 Geraniom of, Morocoan b. 24.00 27.60 Geraniom of, Morocoan b. 24.00 27.60 Geraniom of, Morocoan b. 33.00 38.00 Chinese b. kild 67.00 85.00 Egypt. b. 665.00 Geranyl formate, syn., dms. b. 10.85 Geranyl formate, syn., dms. b. 10.80 Geranyl formate, syn., dms. b. 1	Heptanolcack I-fexadecano Hexanydroph dris, Hexarriadryler O.I.I. gran. d. por. bg powd. Hexane, Indue 65 %, Iani Tex I-fexane, Indue powd. Hexyl aloo tanks p-Hexyl met work Hexylene glyc Horehound in Hydrazine h ydrazine h add 55 get Hydrazine h exylene glyc H exyl
17. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	Galfo acid, 400-kilo lotes. Isla 85.00 105.00 Garlo Gi, dms., Egyptian. Isla 85.00 105.00 Geistin, edibie, 100 AOAC test, dms., 1.1., divd. 1.55 1.85 1.85 1.95 150 AOAC test, dms., 1.1., ib. 1.85 1.95 150 AOAC test, dms., 1.1., ib. 1.85 1.95 2.05 2.05 AOAC test, dms., 1.1., ib. 1.85 2.05 2.05 2.00 AOAC test, dms., 1.1., ib. 2.05 2.16 2.20 AOAC test, dms., 1.1., ib. 2.05 2.16 2.25 AOAC test, dms., 1.1., ib. 2.30 2.45 3.00 AOAC test, dms., 1.1., ib. 2.30 2.46 3.00 AOAC test, dms., 1.1., ib. 2.50 2.66 Geraino, syn., 90-92%, dms., ib. 5.75 3.00 Geraino, syn., 90-92%, dms., ib. 5.75 3.00 38.00 38.00 Bourbon, Adams., ib. 30.00 38.00 Bourbon, ib. 30.00 38.00 S.00 Chinese kind, dms., ib. 10.85 3.00 S.00 Geraino acid test, syn., dms., ib. 10.85 3.00 S.00 Geraino acid test, syn., dms., ib. 19.96 Gilsonite, 9.6, bulk, c.1., [.o.b. Bourbon, 19.96 Gilsonite, 9.6, 6.00 Gilsonite, 9.6, 6.00 Gilsonite, 9.6, 6.00 Gilsonite, 9.6, 6.	Heptanolcack I-fexadecano Hexanydroph dms, Hexanterivier O.I.I. gran. di por. bg powd, Hexane, Indue 85 %, I ani Tex I-fexanel, syn Hexyl alooh tanks p-Hexyl met work Hexyleaporcin Homatropine 1004 Homatropine 2500 Horehound hi Hydrazine h 361, 55-gal Hydricdic bys Hydricdic bys Hydrichionic tanks Hydrophomic
一 いん いっぱん	Galfo acid, 400-kilo lotes. Isla 85.00 105.00 Garlo Gi, dms., Egyptian. Isla 85.00 105.00 Geistin, edible, 100 AOAC test, dms. 1.1., divd. b. 1.50 1.76 125 ACAC test, dms., I.1. b. 1.75 1.85 156 AOAC test, dms., I.1. b. 1.95 2.05 175 AOAC test, dms., I.1. b. 2.05 2.18 200 AOAC test, dms., I.1. b. 2.05 2.18 226 AOAC test, dms., I.1. b. 2.20 2.35 275 AOAC test, dms., I.1. b. 2.20 2.45 300 AOAC test, dms., I.1. b. 2.50 2.65 Gentisn viole (see Methyl roseaniths chioride), Gerariol, syn., 90-92%, dms. b. 5.25 gentisn viole (see Methyl roseaniths chioride), Gerariol, syn., 90-92%, dms. b. 5.75 gentism of the transport of the transpor	Heptanok ack I-fexadecano Hexahydroph dma, I-fexanethyler Od., Gran, d pov. bg powd., Hexane, Indue 65%, Iani Tex I-fexanethyler Lanks p-Hexyl meit Hexyl meit Hexylene glyc Hexylene glyc Hexylene glyc Homatropine 100- Homatropine 2500 Horehound h Hydrazine h Add, 55-gal Hydracine ack obye Hydrachets dma tanke,

Ferricchiorida, sewage grade, 100 per-ceni basis, f.o.b. works, tank

VDING AUGUST 29, 1986

- I	Olive home autocated armen letter		
- 1	Glue, bone, extracted, green, jelly-	_	_
ĺ	grams, bgs., c.lb.	.89	Ξ
	85 jellygnerne, loga., o.t., f.o.b lb.	.78	Ξ
.99	116 jellygrama, bgs., o.l., l.o.b lb.	.77	_
	135 jellygrams, bgs., c.l., f.o.b lb.	.79	_
	194 jellygrams, bga., c.l., f.o.b lb.		-
	192 jellygrams, bgs., o.l., f.o.b lb.	.67	-
-	220 jellygrems, bgs. c.f. f.o.b lb.	.93	-
	Give, hide,		
	109 jelygrams, bgs., t.l., l.o.b lb.	.80	-
	135 jaflygrama, bgg., J.I., J.o.b lb.	.85	-
-	164 jellygrams, bgs., I L., I.o.b., Ro.	.90	-
	192 jellygrams, bgs., t.l., l.o.b lb.	.95	-
	222 jellygrams, bgs., I.I., I.o.b Ib.	1.00	-
-	251 jellygrams, bgs., t.l., f.o.b., lb.	1.05	
	283 jellygrame, bgs., t.l., f.o.b lb.	1.10	-
-	316 jellygrams, bga., t.t., i.o.b., ib.	1.15	-
-	347 jellygrems, logs., t.1., l.o.b lb.	1.20	-
	379 jellygrams, bgs., t.l., l.o.b lb.	1.25	_
-	41f jellygrams, bgs., i.l., i.o.b lb.	1.30	-
	444 jeliygrams, bgs., t.L, I.o.b lb.	1.35	-
-	477 jellygrams, bgs., t.l., f.o.b., lb.	1.40	-
	Glutemic ecid, 991/2% dms., 100-lb.		
50.00	jots, frt, alldklio	9.65	_
20.00	Glycerine, nat., refd., USP, CP 991/5%		
90.00	tanks, clvd lb.	.891/2	_
-	USP, CP, nat. 96%, tanke, divd Ib.	.87%	_
-	Syn. 96%, tanka divd lb.	.89%	-
	Syn. 99.5%, tanke divd	.91	_
.75	Glycine (see Aminoacetic acid).		
.36	Glyceryl gualacolate. 100-lb. fib. dms.		
20	1.0.b	14.50	_
-	Glycolic acid (see Hydroxyscetic acid)		
-	Giyoxal 40% aoin., bulk, tanks,		
		.441/2	_
	divd	2.75	_
-	Calif dos	2.25	_
-	Calil., dms	2.25	_
	Graphite, amorph, powd., bgs., dma.,		
_	Grapritte, amorphi, powde, ogs., dina.	.16	.40
-	8x whse		
	ex whse	.30	60
-	Graphite, cryst., 90-92%, powd . bgs.,	.50	-
64	Graphite, cryst., 90-9276, powo . Dgs.,	.40	.75
.74	dms., ax whse	.40	
1.14	95-96% powd., bgs., dnis., ax	.90	.90
.634	whselb	.80	.00
1.08			
1.00	powd., bga., dms ex	.80	1.20
•	Whee	.00	1.20
.090	Graphite, take, No. 1, 80-8076, Ogs.	.65	.75
.000	Cilia- av attraga 11-11-11-	.05	
.1068	No. 2, 90-85%, bgs., dms., ex	.65	.75
	Wise	report)	
.1025	Greate (366 Chs, Fata a Transation	. opc. q	
.1060	Guelacol, tech., 500-lb dms., 24,000lb.		
_	Illilli, I.O.O. Waning in	2.70	-
_	Com	2.70	
	NOTE: Purified grades sra 10c. higher	2.50	-
-	Guslacwood oil, dma b.	E. 00	_
-	Guer gum, edible, bga., c.l., f.o.b.	.50	.76
	ship't pt	.50	
1.03	indust., bgs., high viscosity, c.t.,	.50	.85
	same basia	.00	.00
.77%	فيسمون فيوني فينست فينته والمتابع المتابع المتابع		
.624			

Hemicok of (see Spruce off).  Henbene iseves, bis.  Heptane, indust., tenks, i.o.b. Besumoni, Tex.  85%, tenks, f.o.b. Housian, Tex. gal.  Heptanokacki, syn., tenks, i.o.b.  Hexahydrophthelic anhydride, tech.  dns, i.t.i., i.o.b. works . ib.  Hexandrivienetetramine, gran. bgs.  oi., i.i., works . ib.  gran. dns, oi., i.i., works . ib.  por. hos. ci. t.i., works . ib.	3.00 .55 1.07 1.18 .85 .43½ 1.42 .55 .60 .63	8.25
Henbene leaves, bis	1.07 1.18 .85 .43½ 1.42 .55 .69	
Heptana, Indust., tanks, I.o.b. Beaumont, Fex	1.18 .85 .43% 1.42 .55 .69	
mont, Tex	1.18 .85 .43% 1.42 .55 .69	
85%, tanka, f.o.b. Housian, Tex	.85 .43% 1.42 .55 .59 .60	
Tex	.85 .43% 1.42 .55 .59 .60	- I - I - I
I-Hexadecanol, syn., tanka, 1.0.0	.43% 1.42 .55 .59 .80	
Hexahydrophthasic annychos, tech.  'dns, it.i., f.o.b. works b.  Hexamethylanetetramins, gran. bgs.  o.i., i.i., works	.55 .59 .60	
dme, I.I.I., f.o.b. works	55 59 60	- 2 :
Hexemetrylenetetramine, gran, ogs., o.l., l.l., works	55 59 60	2
gran, dries., o.l., i.l., works	59 60	. 2
gran dries, o.l., i.l., works fb.	.60	- :
nor bos. c.l. t.l. works lb.		
		-
powd.dms, c.L. t.l., works lb.	1.01	1.15
Hexane, Indust., tanks, worksgal. 85%, Ianks. 1.o.b. Houston,		
Texgal.	1.12	-
Literanol syn., tanks, I.o.b	.50	
Hexyf alcohol, mixed feemers		- 20
tanka	.32	- 1
p-Hexyl methacrylate, dms., c.l.,	7612	:
Works	.50	
Hexylessorcinol, USP, dma., 25-lb. lots		
or more, frt. and	OQ. 00	
Homatropine hydrobromide, USP, 10-		
100-oz. jojs, bols Oz. 1	0.25	11,30
Hometropine methylbromide, USP, 10-	8.70	10.70
250 o z. lots, bots oz.	25	2k
Hydrazine hydreje, 85%, t.f., irt.		
ald	1.54	
55-oat down: t.l., Irt. alid Ro	. 1.6t	$i_{1}^{\prime}$ $i_{2}^{\prime}$
Hydriadic acid, purif. 47%-57%, 2-	ار ينو پ	70.00
obva. f.o.b. works.	7.50	· *
Hydroabjetyl algohol, tech., solld.	.85	1. d.f.
tanks, C.J., I.o.b. zone 1 lb lb lb	.80	
Hydrobromic acid, 48% dms., c.l. U.	. 5	11,71,0

## Works | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 1

1.80 18

120

6.25

Fernel bil, sweet, USP, cas tilo
Fernel seed, Egypt tilo
Indian Seed, Indian, ogs tilo
Fernel seed, seed, Indian, ogs tilo
Ferne seedseed, Indian, ogs tilo
Ferne sterde antyd, beda, 380 tilo
Ferne chloride, 42 Se, phose grads
care, ol., works 100 bs

September 1, 1986

	S.P. Japaner and	2	
	i.	İ	
1			1
	-	j	10 A 10 A
•	3	)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
4			
40	Ľ		

CHEMICAL PRICES  WEEK ENDING AUGUST 22, 1986  Hydrochatric said, 29° B., 1 anna, 1 ann							
## PRICES    WEEK ENDING AUGUST 22, 1988							Lake C, re
## PRICES    WEEK ENDING AUGUST 22, 1988	PLEMI	$\mathbf{A}_{i}$		iron oxide, black, syn., bgs., c.l., irt.	1.00	-	Lanolin, a
## PRICES    WEEK ENDING AUGUST 22, 1988	LOCIVII		<b>1</b> L.		.681/2	.751/2	phern
WEEK ENDING AUGUST 22, 1988  Hydrocarbon cell 20* Ba. parks, 1988 1989 1989 1989 1989 1989 1989 198		<b>V</b> F	7.66	equeldb.	.68	.781/2	tech.,
WEEK ENDING AUGUST 22, 1988  Hydrocarbon cell 20* Ba. parks, 1988 1989 1989 1989 1989 1989 1989 198	DDIAEC			frt. equaldlb.	.13	.15	Lard (See (
WEEK ENDING AUGUST 22, 1988  Hydrocarbon cell 20* Ba. parks, 1988 1989 1989 1989 1989 1989 1989 198	PRIGES				.275	.40	Lard oil, No
WEEK ENDING AUGUST 22, 1988  Hydrochrider's acid, 20' Bs. Institute  50.00 Coff Cost 10 00 00 00 00 00 00 00 00 00 00 00 00	I STIAM!	•				71	Lard oil, e
Institute   Color	WEEK ENDING AUGU	ST 22	1988	fron oxide, buff, nat., dom, bgs., c.l.,			terke,
Septiment of the control of the cont	The second livery with	هرستيماد	, 1500	darkb		.00	ρrima, bi
## Word Coast   00 00.00 05.00   27 acts clasmo lasis, East   00 00.00 05.00   28 acts clasmo lasis, East   00 00.00 05.00   28 acts clasmo lasis, East   00 00.00 05.00   29 acts clasmo lasis, East   00 00.00 05.00   20 acts clasmo lasis, East   00 00.00 05.00   21 acts clasmo lasis, East   00 00.00 05.00   22 acts clasmo lasis, East   00 00.00 05.00   23 acts clasmo lasis, East   00 00.00 05.00   24 acts   00 00.00 05.00 05.00   24 acts   00 00.00 05.00 05.00   25 acts   00 00.00 05.00 05.00   26 acts   00 00.00 05.00 05.00 05.00 05.00   26 acts   00 00.00 05.00 05.00 05.00 05.00 05.00 05.00 05.00 05.00   27 acts   00 00.00 05	works, Esst ton	55.00	65.00	equaldb.	.50	.55	prime, t
Month   Color   1.5	Oulf Coast ton	60.00	70.00		1,40	-	NOTE: 30
Motivarial	West Coast ton	90.00		alid		1.48	Laurel leave
West Cost	Midwestton	56.00		Isobornyl acetate, dms		1.15	Lauric acid.
The process of the process of country of the process of the proces	West Coast ton	100 00	115.00	frt. alkdb.	.45	.48	Laurio eld
Projectocolitics activated recording   Projectocolitics   Activated recording   Projectocolitics   Projecto	IZBO OBDENOMO ON producer an	nt collect f d location.	reight equal-	Isobutyl alcohol, tanks, divd Ib.		_	n-Lauryl m
Second	dms., 25 kilos or more , gram.	.70	_	faobutylene, 99%, tanks, f.o.b.		_	Lavandin of Lavender fi
Projection content of strips (see the principal hands)   Principal strips (see the principal s	dms., 25 kilos or more , oram.	.70	_	isobutyl isobutyrate, tanka, f.o.b.		_	medium,
### Strict Condition of Conditi	Hydrofluoric acid, anhyd, (see Hydroger	illuaride)		isobutyi methacrylata, tanka, divd b.	.67	=	Lavendar fi 40-425
Selective processing   September   Septe	tenke f.a.b. fre	42.00		l isobulyi ealicylate, dma		3.50	spike, Sp Lead acet
Land	Hydronuosiicic acid, 15-gal. dms I.I		-	180butyreidehyda, tech., dme., c.l.,		_	dir
### 1, 10, 10, 10, 10, 10, 10, 10, 10, 10,	tanks, 100% basis, works, ton		140.00	larks dwd	.35		tech.,
## 1. Collect	30,000-lbe., f.o.b. works b.	7.00	_	tarks, same basis		C88	Lead blue, shi
SOOD, Locks, C. I., same basis   .	CJ., works	.65	_	irt. collect	.84	_	Lead carbo
### 1, ### 12 11 12 12 13 1	600-lb. cyfs., o.i., aame basta lb. Hydrogen chloride, anhyd., tube trail-		-	tenks, same basis	.75	5.80	Lead dloxid
Production   Depth   State   Depth	ars, seller's treller, min.	97	-	i Isoniazid, powd kilo	12 00	-	Lead fluobo
# Hydrogen Open Choice is g. 92.5% is that is care (a. I. L. p. I. p. dependent open choice is g. 92.5% is that is care (a. I. p. I. p. it equate. In b. J. 28.57   1. p.	(uice trailers, buyer's trailer lb.		-	Isononyi alcohol, drns., t. i	-48	-	Lead metal, Lead mono
Hydrogen process, Syst. teach. B.	works ton	270.00	-	lecohorone, tanka divd			f.o.
## chipdops hourde, arrived, arrived as a proper place to the place to the proper place to the proper place to the proper plac	worksb.		_	Jollet, III., min. frt. alid In.		_	coarsa, b
### ### ### ### ### ### ### ### ### ##	Hydrogen fluoride, anhyd., tank cars			isophthaionitrile, bos., t.l., works Ro.	2.85	-	frt. Lead nitrete
STOR, intraces, 81, equal.d. b. 3.225 hydroxysists acquist.d. b. 46 hydroxysists acquist.d. b. 42 hydroxysists acquist.d. b. 2.27 hydroxysists acquist.d. b. 2.25 hydroxysists acquist.d. b. 2.27 hydroxysists acquist.d. b. 2.25 hydroxysists acquist.d. b. 2.25 hydroxysists acquist.d. b. 2.25 hydroxysists acquist.d. criss. 11, 20 hydroxys	Hydrogen peroxide, 35% tech., tanks.			isopropyi aicohol, anhyd., 99%, tanks.		-	Lead peroxic
Production   Product   Production   Produc	50% tankcars, irt, equald	.3225	-	refd., 95%, tanks, divd		-	Lead red, 95
Production   Description grade, constant   Description	Hydrogen euifide, 1q., 99.25% min.		-	isopropylether, tanke, dvd ib.		-	Laed rad, wor
ans. c.l. J. J. divid tb. 2.54 tech. divid. C.L. divid tb. 1.95 Hydroxyacric actd. tech. 70%, tanks, 1. 469 Hydroxyclironelated dimethyl acotest. 618 12.000 pp. 100 b. bags, 1. 4. 10 1. 400 Hydroxyclironelated dimethyl acotest. 618 618 12.000 pp. 100 b. bags, 1. 4. 410 1. 400 1.	170 b, cylinders		.13	Cruds, tanks, divd		-	Lead, red, 9
Prychocycoproport anytogenic act   1, 1, 20   1, 20	918. O.I., (.t., divd lb.	2.54	_	180propyl myristate, dms., t.l., F Ib			Lead silicate
### Hydroxylatronal materials of materials and materials of materials	riyoroxyacetic acid, tech., 70%, tanks.	1.95	-	nacoruc acid, retd. ogs (1 b.	1.45	1.48	Lead ellic
D - Hydroxylerzenia sufferic sectic (see Priemolestificine soid, Hydroxylery) methylosis (see Priemolestificine soid, Hydroxylery) methylosis (see See See See See See See See See See	Belle, W. Ve	.491/2	-				Lead sulfate bas
April	I.O D	.83	-				Lead, white,
### SAUDU Ib. min., divid., zone ### Dydroxycipronalist dimensinyl acesis, 1 ### Dydroxycipronalist dimensions, 1 ### Dydroxycipronyl methylocalistosa (visc. 1 ### Dydroxycipronyl methylocalistosa (visc. 1 ### Dydroxycipronyl methylocalistosa (visc. 1 ### Dydroxycipronyl methylocalistosa, proposition of the proposition of t	nyuruxyoutyi memyicellulose (visc	nenousumo	nic ecid).				Lead, white
hydroxyctronelial dimethyl acets    1,	30.000 lb. min , divd., zone						Lead, white
Deliver consideration and the consideration of the	riyuroxycitronellal dimethyl acetat.	2.10	-	J acid, paste, drns., works, 100% ba-			Lecithin, edi ret.
#ydroxycaty methylocalulosa (visc. 5.00 methylocalulosa (v	p-Hydroxydiphenylamine, dmat.i	18.55	- ]	Japan wax, cs		-	unblesch
Description	I-O.D. Works	4.10	-	JOJ008 QII, 55-QBJ, dmg., f.o.b. Arizone			sam edible, te
Section   Sect	natural, drne lb.		-	Juniper berry oil, Italian kilo			unbleach
Indicate	extra grede, drns	14.60	-				Lemon off, A
Company	MWOMOWO Collidae II al.a. IL		2.12	V			Brazi Casi.
D. Sage   1. o. d. 30,000   b. c.	A'ron (HOTEL 42'AND CD8") 90			A			Itelian Lemongress
Indication   Ind	MR., divo., 2009 1	2.73	_	11			Guatemate di-Leucine, d
Phydroxypropyl methycesisiose, U.S.P (visc. 50 through 100 pags 50 to be bags, 1.1, c.1, 30,000 lb, mind, zone 1 to be bags, 1.1, c.1, 20,000 lb, mind, zone 1 to be bags, 1.1, c.1, 20,000 lb, mind, zone 1 to be bags, 1.1, c.1, 20,000 lb, mind, zone 1 to be bags, 1.1, c.1, 20,000 lb, mind, zone 1 to be bags, 1.1, c.1, 20,000 lb, mind, zone 1 to be bags, 1.1, c.1, 20,000 lb, mind, zone 1 to be bags, 1.1, c.1, 20,000 lb, mind, zone 1 to be bags, 1.1, c.1, 20,000 lb, mind, zone 1 to be bags, 1.1, c.1, 20,000 lb, mind, zone 1 to be bags, 1.1, c.1, 20,000 lb, mind, zone 1 to be bags, 1.1, c.1, 20,000 lb, mind, zone 1 to be bags, 1.1, c.1, 20,000 lb, mind, zone 1 to be bags, 20,000 lb, mind, zone 1 to be bag	CIVEROX VERODVI melbulcethilsee see.			Kenin water washed but a labor			Licorice root gran., bis.
Phydroxypropy methylocelisione   U.S.P	1.1., C.1., 30.000 lb. min., divd.			D8G5 O.L. LO.D. Georgia top 2	55.00	_	powd., ble
(visc. 50 through 100 pps) 60 (b. bags, t.j. c.t., 30,000 ib. min., divid., zone 1 ib. 2,99 - 4,000 through 15,000 cps) 50 (b. bags, t.j. c.t., 30,000 b. in. divid., zone 1 ib. bags, t.j. c.t., 30,000 b. in. divid., zone 1 ib. bags, t.j. c.t., 30,000 b. in. divid., zone 1 ib. bags, t.j. c.t., 30,000 b. in. divid., zone 1 ib. bags, t.j. c.t., 30,000 b. min. divid., zone 1 ib. bags, t.j. c.t., 30,000 b. min. divid., zone 1 ib. bags, t.j. c.t., 30,000 b. min. divid., zone 1 ib. bags, t.j. c.t., 30,000 b. min. divid., zone 1 ib. bags, t.j. c.t., 30,000 b. min. divid., zone 1 ib. bags, t.j. c.t., 30,000 b. min. divid., zone 1 ib. bags, t.j. c.t., average divided water washed, uracle chief pelnit grade 1 micron average set. conditions and the condition of the conditi	2000 1	2.87	-	troned, 50 lb. bagg., 5,000 lb.			lone
Hydroxypropi methyfoethiose (visc. 4,000 through 15,000 cps) 50 b. bags, t.t., c.t. 30,000 b. in. dvd., zone 1   b. 2.17   b. bags, t.t., c.t. 30,000 b. in. dvd., zone 1   b. bags, t.t., c.t. 30,000 b. in. dvd., zone 1   b. bags, t.t., c.t. 30,000 b. in. dvd., zone 1   b. bags, t.t., c.t. 30,000 b. min. dvd., zone 1   b. bags, t.t., c.t. 30,000 b. min. dvd., zone 1   b. bags, t.t., c.t. 30,000 b. min. dvd., zone 1   b. bags, t.t., c.t. 30,000 b. min. dvd., zone 1   b. bags, t.t., c.t. 30,000 b. min. dvd., zone 1   b. bags, t.t., c.t. 30,000 b. min. dvd., zone 1   b. bags, t.t., c.t. 30,000 b. min. dvd., zone 1   b. bags, t.t., c.t. 30,000 b. min. dvd., zone 1   b. bags, t.t., c.t. 30,000 b. min. dvd., zone 1   b. bags, t.t., c.t. 30,000 b. min. dvd., zone 1   b. bags, t.t., c.t. 30,000 b. min. dvd., zone 1   b. bags, t.t., c.t. 30,000 b. min. dvd., zone 1   b. bags, t.t., c.t. 30,000 b. min. dvd., zone 1   b. bags, t.t., c.t. 30,000 b. min. dvd., zone 1   b. bags, t.t., c.t. 30,000 b. min. dvd., zone 1   b. bags, t.t., c.t. 30,000 b. min. dvd., zone 1   b. bags, t.t., t.t. 40,000 b. dvd., zone 1   b. bags, t.t., c.t. 40,000 b. dvd., zone 1   b. bags, t.t., c.t. 40,000 b. dvd., zone 1   b. bags, t.t., c.t. 40,000 b. dvd., zone 1   b. bags, t.t., c.t. 40,000 b. dvd., zone 1   b. bags, t.t., c.t. 40,000 b. dvd., zone 1   b. bags, t.t., c.t. 40,000 b. dvd., zone 1   b. bags, t.t., c.t. 40,000 b. dvd., zone 1   b. bags, t.t., c.t. 40,000 b. dvd., zone 1   b. bags, t.t., c.t. 40,000 b. dvd., zone 1   b. bags, t.t., zone	(VISC, 50) (Inrough 100 cost 50			Kaolin, uncatcined, No. 1 costing, bulk	.24	-	Lime, chem bulk
4,000 twough 15,000 cps 56   b. bags, 1.t., cl., 30,000 lb. bn.	ICED., CRVCJ., ZODA 1	2,99	-	C.L. L.O.D., Gaornia		-	plan Lime, chemi
## Authorspropries   December   D	4,000 (nrough 15,000 cms) 50			NU. O CUA DIO	73.00	-	hasi
So through 100 cps) 50 fb. bags, 11, 0, 130,000 lb. min., bb. 2,84 hypophosphorous actd, purif. 50% dms., c.l., works lb. 3.15 hypophosphorous actd, purif. 50% dms., c.l., works lb. 3.15 hypophosphorous actd, purif. 50% dms., c.l., works lb. 3.15 hypophosphorous actd, purif. 50% dms., c.l., works lb. 3.15 hypophosphorous actd, purif. 50% dms., c.l., works lb. 3.15 hypophosphorous actd, purif. 50% dms., c.l., works lb. 3.15 hypophosphorous actd, purif. 50% dms., c.l., works lb. 3.15 hypophosphorous actd, purif. 50% dms., lb. 4.25 hypophosphorous actd, purif. 50% dms., lb. 50% dms., lb. 60 hypophosphorous actd, lb. 50% dms., lb. 60 hypophosphorous actd, lb. 50% dms., lb. 60 hypophosphorous actd, lb. 50% dms., lb. 22 lb. 26 hypophosphorous actd, lb. 50% dms., lb. 22 lb. 26 hypophosphorous actd, lb. 50% dms., lb. 22 lb. 26 hypophosphorous actd, lb. 50% dms., lb. 20% dms., lb. 2	GIVOL, ZORIB 1	2.17	<u> -</u> 1	filer, gen,i purpose, eame be-	70.00	-	bgs., i Lime, NF, pu Lima oil, dist.
Chick part   Chick	ou through 100 cpe) 60 fb.			Celaminated water washed uncell	68.00	-	Haitian, dis
Chicken Care   Color	dNd., zone 1	2.84	~	cined paint grade 1 micron	82.00		Lime salts (si d-Limonene,
Chemistry   Colored   Co	Hypophosphorous acid, purif., 50%		<u>n</u> a	sis		-	Unalool ex bo
Indication   Ind	qms., c.l., works lb.	3.15		NEURYE QUITI, NO. 1. DOWN. Inhie III.	2.25	-	Linatool oxid Linatyl aceta
Chitharamol.NF.200-kio dms.				Kola nuts, bgaib.		.51	92%
Line							Syn. 98-10 Linskyl benzo
Line							Linelyl otni
Linder   L	# ####################################		'				Linelyi forma Linelyi laot
O.   I.   Works   D.   3.00	Ichthammol. NF. 200-kilo dms ib.	4.25	4.50				dma Lindene, 20
Incatiol, 50-kito dims., 1000 kisos or more, i.o.b. works. kilo 17.50 22.00   Incation, crude, dims. kilo 13.50 16.00   Incation, crude, dims. kilo 13.50 16.00   Id.21 14.59   Id.21 14.59   Id.21 14.59   Id.21 14.59   Id.21 14.59   Id.21 Id.21 Id.29   Id.21 Id.20   Id.21 Id.20   Id.20   Id.21 Id.20	O.L. I.I., WORKS		<b>-</b> ·				GVd. 9 %
Codine cause   Code	inoditol, 50-kg0 Qms., 1000 kgos or	'		Lacquer diluent patroleum, 140F.			Linelyi pro
14.59   14.59   14.59   14.59   14.59   14.59   14.59   14.59   14.59   14.59   14.59   15.50   15.5	more, I.o.b. works kilo locine, crude, drns kilo	13.50		and New York	1.25	_	Unden flowe
240   1.20   1.25   1.25   1.26   1.25   1.25   1.25   1.25   1.26   1.25   1	lodochlorhydroxyguin, LISP, XVI SO.			Lacquer diluent, petroleum 2005		. <b>-</b> .	without Linseed mag
Indeptorm	kijo cime., 100-499 kilos, frt.	38.00	45.00	York and New Jarsey and	1 00		Unseed oil (
b-konone, dms. b. 13.10 - 50%, t.o., irt equald. b. 62   Liffield placed roof, whole, bgs. b. 25.00 - 10.00   10.00	10000101111, NF, 01118., 3000-10s., 1.0.b.						Lineago on 12
pecacroof, whole, bgs. b 25.00 tech, 85%, i.e., int equald: b 1.03 tech, 85%, i.e., int equald: b 1.03 tech, 85%, i.e., int equald: b 1.03 tech, 85%, i.e., interpretable by 1	e-lonone, dms	16.20	= .	I WOUND			Litherge, co
Wrick 15s 56 80 Limb 15s 66 80 Limb	ipecacroof, whole, bas,		•	tech. 88% I.c. frt equals	.62		Lithlum bro
from blue, reg., bgs., i.e.t., ton lots, bb. 2.70 same basis. bb. 2.00 2 15 Lactosa, USP, apray died, bgs., i.e.t., ton lots, same basis. bb. 2.00 2 15 ht; squaid. bb. 80 Limb.  38 CHEMICAL MARKETING REPORTER. September 1/1986	Whole.	.56	80	works reg. b6s., c.l.,		. 00	Son, sam
same basis ib 2.00 2.15 solutions. Use apray died, bgs. (1 b. 80 Limbs)  88 CHEMICAL MARKETING REPORTER (September 1/1986)	ton lots, div, E	2.70		cactosa, USP-, reg. Oms., c.l., LL, Irt.			Lithium ohi
38 CHEMICAL MARKETING REPORTER September 1/1986	ron pipe, reg., bgs., I.c.i., ton lots, same basis	2.00	2 15	LEGUESE USE SPORT delet be 1	1. 1. 1		divd
	38 CHEMICAL MA	* /* :		Opmen	.80	0.0	Figure through
			1000	captember 1	1986	14	
				3	AC. A TEN	S. Artin	St. Id.

C, red toner. (red 53) bbls., frt.			Lithiumhydride. c.f., LL, divd. 10,005 or	-	
alid	5.70	-	Lithium hydroxida, monohydrata	23.50	
dms., works	1.18	1.25	Lithium hypochlorite c 1 11 works h.	1.93	-
works	1.15	110	divd	22.70	- 1
dms., works	1.08 port.)	113	lois	3.25	
oli, No. 1, dars., c.l., f.o.b lb. ks, same basie lb. oli, extra wipler streiner, das	.34 .26		Lithium sulfete, enhydrous 11 dbyt is	1.01	
oli, extra, winter-strained, dms., c.l	.41 .33	-	l.lihol red toner, berium, dms., trt. elid	3.27	
na, burning, dms., c.l., sema ba- als, Chicago	.43	_	dms. trt. old.	3.50	-
ne, burning, tanka, same ba- sisb.	.35		2,4-Lutidee, dms., 1.L. frt. equald kelo	5.60 6.00	åB
E: 300 Mi. rad. 1 14o. higher, excep Coest, 3o. higher.	of Taxas, 2c	and West	1-Lysine menohydrochloride (sed	8.00	pt.
lleaves, Turkish	1.80 3.85	-	grede, 10,000 lbs. dvdlb.	1.35	18
sald, comi., pure bgs., c.l fb. eldehyds (eldehyde C-12).	.85	.71			
ryl methacrylais, dms., c.l., t.t.,	7.75	-	M		
works	1.72 4.00	- - 76	1111		
der flowers, ord lb. dium, bls lb. act. bls	.85 .80 1.10	.75 .90 1.18	Mace Fest Indian elitines	,	
der flower of, NF, French,	9.25	1.18	Mace, East Indian, elitings,	4.95 5.60	5 00 6.75
re, Spanish, dmskilo acetate, purif., flake. 400-lb.	15.00	22.00	Magnesia, tech., light, neoprene- grade, bgs., o.t., t.l., works lb. Magnesia, syn., tech., chemical-	.75	41
dma., works b.	.48	-	grade, bulk, c.l., Li. workston	330.00	
och., fleke, t.l., 400lb. dms., workelb. blue, basic, sullete, bbis., o.l.,	.37	-	begs, o.i., i.i., earne basis ton deadburned, bulk, seme ba-	330.00 365.00	:
ship,i. pt., f.o.b	.87 carbonate).	-	bgs., same basiston	392,00 409.00	:
chlorida, 400-lb. drna., works. lb. dioxida, tach., powd., 200-lb.	3.25	-	mesh, bulk, c.l., t.l., 1.o.b.	- 20/44	_
dms., t.t., works	.88	.70	90%, 325 mesh, same basis ton	232.00 265.00	:
works, frt. equaldlb.	.65 .16	.181/2	Megnesium bromids, 80-b. dms. hex- ahydreis	2.50	
monosilicata, milled, bgs., c.l., f.o.b. works	.58%	_	bos., c.f., t.l., works, fri.		_
se, bgs., c.l., earne basis lb. ephthenete liq., 24% Pb. dms., frt. ald lb.	.571/2	-	USP, tile bgs., c.f., same basisfb.	.73 .74	n
lireta tech., cryet., 400-lb. dme., t.l., works	.93	_	USP, heavy, bgs., c.l., same basis ib. Megnesium chloride, enhyd., 92%,	.83	-
eroxide (see Lead dioxide). ed, 95% Pb <sub>3</sub> O <sub>4</sub> , or leas, bgs. c.l.,	.3272	-	fleke or pobble dms., c.t., works	.124	.15
rad, 97% Pb <sub>1</sub> O <sub>4</sub> , bgs. o.l.	.37	-	liake, bgs., c.l., works	.1472	-
works	.371/2	-	f.o.b. works, E lb. Megnesium hydroxido, IJF, powd.	4.25	-
mudio (836 Legg, Wills, Desk bijk	.37½ :ale).	.401/2	dms., c.l., f.t., works frt.	.76	
works	35		Magnoshan lauryl sulfale, tanks, Lo.b. works	22	21
basic sulfate)	liele and L	ead, while,	Magnesium motel, 99.8%, ingets, 10,000-ib. lots or more. f.e b.		
white, basic carbonete, bgs., c.l., frt. elid	.82	-	Freeport, Tex	1.53 1.29	1.33
white, basic suffete, bos., c.t.	.87	-	Magnesium nilreto, tech., liako. 250- b. dnis., t.l., works	.32	-
n, edible, tech., bleached, non-	.85	-	Magnosiumoxide, USP, light, bgs., c.l., works, frt, equald	1.65 1.54	:
ret. dma., l.c.t., worka ib. esched non-ret, dma., l.c.t.	.38	-	heavy, dms., c.l., same basis ib. Magnesium oxido, tech. (see Magnesia) Magnesium phosphale, tribasic, tech.		
ie, tech, blasched, non-ret.	.34	-	60-lb. bgs., f.o.blb. Magnosium silicate (see Tolc).	1.00	-
eached, non-ret., dms., t.l.,	.28	-	Magnosium silcolfucido, bgs., c.l., t.l. worksb.	.1645	1900
off, Argantine	.26 14.00	-	Megnesium sienrote, bulk, tl lb. Megnesium sullate 10% Mg. (epsem	.95	13
Cast., USP, dms	9.00 12.50	7.00 9.35	works	.14	:
Itelian	12.50 11.25	=	USP. cryst., bgs., some basis .ib.	.130	£
ine, dme., 1 kilo workskilo e root, whole, ble	60.00 .40	90.00	USP, cryst., bulk, semo bosis . lb. Magnesium sullato, 17% Mg, (syn-	.14%	
d, bie	.70	.90	tholic monohydrale), tech- bgs.t.f., works	.80 ·	:
ultonelo (ees under Ammonium Ionale).	or Sodium	lignin sul-	Magnosium suffato, enhydrous, CP bgs.,11, works	1.76	٠.
chemical, pebble (quicklime), bulk, 50,000 ibs., works f.o.b.			Megnosium suitato Irihydrete, tech., bgs., t.i., works ib.	.46	•
hemical hydreted bulk seme	39.00	45.00	Magnesium Irisliketo, USP, powd., fib. dms. 8,000-lb. lots	.38	
bos., same basis	48.00 54.00	50.00 67.00	U6P, micronized powd., dms., 375-tb. loteb.	.83	-
if, purif., 100-lb. dms lb. I, dist., Mexican, dms lb. an, dist., dms lb.	8.00 8.00	-	Malathion, tech., dms., (.1., works b. Meleio ecid, cryst., powd., drums, 100	3.20	
88890, dme	6.00 17.50	. 🗆	kilos, f.o.b	2.80	
nena, dmatilo	.70 8.35	.65	Maleic anhydride, bgs., t.1., works, frt. equald	.55 .53	.58
oxida, eyn., 85-gel, dm	2.93 7.75	3	tanks, works, frt. equaldlb. Mailc acid, puril, and load grades. 50-	.81	şi
92%, dms	18.00	21.00	Manderin oil (see Tangerine oil, Italian). Mendella eold, dma., 1,000 kilo.		16 06
benzoale, svn., 55-cal, dres B	3.10 8.00	-	kito kito kito kito kito kito kito kito	8.00	10.05
dma.	59.85	, <b>-</b>	letrahydrate dma. t.l. divdb.	48	1.80
laobufyrate, eyn., 55-gal,	7.75	8.50	Manganese borate printing ink crier.ib.	.66	**
dmsb. ne, 20% tormuletion, dma., divdgai	8.50	6.55	mengenese cerbonels, chemical	1,05	1
dvd	13.10	-	Manganese chloride, enhyd., dms.,	.81	
propionele, syn., 55-gal.	8.50 7.60	· .	Manganese dioxide, nat., African, ord.,		
thout leaves his	.76	.85 1.18	7 4%-78% MnO <sub>2</sub> , 100-tb. 095 st. I, works	ALA MI. 'S	
ol. (see Oils, Fete & Waxes me		1.18	Mengenese dioxide, syn., cryst., box.		- 13
tanks.	60	.67 ,82	chamical lentile brade, same be-	701	il.
Works: " howa., pgs., o.l.,	.361/2	.80	Manganese gluconate, FCC grade. 100-lb driss, 1.0.9 works. 10-lb driss, 1.0.9 works. 10-lb driss, 1.0.9 works. 10-lb driss, 1.0.9 works. 10-lb driss, 10-lb driss	49	
lots dvd	6.27	- T		350 301	100
carbonete, powd., bgs., c.l.,	4.00		Manganese hypophosphile.	8.76	41
divi	1.50	*	Manganese metal, electrolytic No.	33 V 3486	101
dms., c.l., t.l., divd	6.32 2.94 4.90		- Manhanesa namhihanata an . 6% Mile	7 A	
	7.00	7. 6	drill det de la constante	3.6	T.

	Vangsnese resinete, fused, 31/2% Mn. dms., Int. alid	.3414	_	Methy
	precip 614-7% Mr. Offis.	.42	-	4,4,-
•	as win has . 50-lon cars, divd.	80.00		puri Methy
	E of Miss.	45.00	-	Methy
	Hanganese samete, 200 Min. ton 3 Hanganese samete, Iq. 6% Min, dms.,	30.00	-	Methy
	in au gowd., dma., t.l.,	.60	-	Methy
	WORKS Ib.	3.02 .86	.87	e-Mati
	Egyptian	.60	.78	p-Mst Methy Mica,
	MBTS (see Mercaptional Page 4.4 -cf-1900ya	nate)		d
	Molisse business (1. 11. 40,000-lb. min, 1.0.b. works lb. buk.cl.,11. same basis lb.	.511/2 .50	.59Va	pair
	Helenine formalderry de result, 6-p., th.	.55	.60	rut
-	molding compounds, same be-	.481/2	-	Micro
	Hanhaden of, crude, tanks, works At-	.11	-	
	Gui ports, same basis	.12	-	Miner
	regular crystels, spo1, cs., buk	8.75 9,00	7.50	6
	Mercapiotenzorrazora, oga., 1.1.	1.25	1.55	1
	Mercaphobenzothiazyl diaultide t.t.,	1.33	1.66	USP
	Herosia chloride NF, gran., powd.,	8.50	-	Mine
	dre. Lo.b. works	7.00	7.25	Mine
	tech.,100-lb. dms., same be- islb. yeow,NF,100-lb. dms., samebe-	5.50	7.00	1
	sk	7.00	7.25	Moly
	Veranus chieride (see Celemei).	5.50	7.50	Moly
	Nerser, ammonisted (see White precipits Nestyloxide, tanks, divid	.46	n. -	tec
	il, irt. equald	.87 .76	-	tec
	d-Methamphetamine hydrochloride, dma	12.00	18.00	Mon
	6-Methemphatamina hydrochloride,	4.50	7.00	
	dins			Mon
	Coast	.52 ine).	.711/2	100
	Methiorias hydroxysnalogue, dry, 86% sctivity LL, frt. alid lb. Equid, 86% sctivity, 1.1. frt	.88.	-	Mon
l	aid ib. d-Wethionine (see Recemethionino)	.88	-	Mon
	Memorychic, 50% wettable powder.	205	_	Mon
ı	desiers, dms	9.40	-	Mon
ļ	rel. dms., tc.l., same ba-	40.00		Mon
ļ	Methyl acatoacsists, Essi, divd.	10.00	_	18.
ì	Metry Bothol (see Methered)	68.50	-	Mon
l	Methylemylketone like office Its.	.55 .54 Vz	-	Mon
ļ	Methyl anthraniflate, tach., dme., lob. (lb.)	t.41	2.65	
Ì	Methy branche dist tealer 140 000	.25 1.65	-	
į	bs.min., trl. aid tb. Hethicalinse, premium, USP (visc. 400 brough 4,000 cps) 60 lb. bass til cl. 30 000 lb.	.58%	-	Mor
l	100 Brough 4,000 cps) 60 lb.			Mor
ı	Methylesisces, premium USP (visc. 15 cos) 50 fb. begs, N. cl., 10,000 fb., dr., cl.,	2.73	-	Mo
l	30,000 hs. dvd., zono 1. b.	2.65	-	Mo
ŀ	Helhylethijose, (visc. 400 through 4,000 cps) 50 b. bgs., il., cl., 30,000 bs., dyd., zono 1., ib.	2.24	_	Mod
Ž,	Lenycetulose (visc. 15 to 25 cos) 50 b. bags, tl., cl., 30,000 lb.	47		Mai
ŀ	b. bags, ti., cl., 30,000 ib. min_cbyd_zone i	2.52	-	Mu
ŀ	Hein Chicroform (see 1, 1, 1-Trichlorge	.26 (hane).		Mu
į	Methodalist India	4.85 6.00 .235		Mu
l	TOTALE, INTO DOORSE day	3.55	3.80	Mu
	UNIX come bear	.41 .29	-	My
Į	Methy beginned, Byn., 55-gal. dma. Ib.	.31 14.50	· -	1 1
·		7.30 45.00	-	My
1	Methyl Phydroxyberzoste (see Methyl Hetyl Chone, sld., dms. lb. Hetyl Isosmyl ketone, tanke, divd.	7.30	9,40	
I	Melityl sobytyl carbinol (see Melity) am	.51 yl alcohol).	-	
1	Ord zone 2 (Call.)	.35	-	
1	Methylicoeugenol, 25-lb, cna.		10.40	. Ne
1		.82	: -	Na Na
1	19980en USP 500 Literane	. 14.00	-	
	Methylparethion, tech. 8004, down to	8.70	: <u>-</u>	Ne
·	Mathy Dienylacetate, drs. b. Hethyl Dienylacetate, drs. b. Hethyl 2 Dyrrolldone, tanks, to b.		-	N
	plant plant tanks, t.o.b.		5.40	N
ďζ	ikethyl roseantine chloride, USP 1-1b. Cans.	1.40		N
The Party of the P	SUCYIBLE NE 1000 IL	a á á		N
4	THE TANKS WE AND THE PARTY OF T	loride).	1.94	ė
	bols divd E of Rockles b	3,26		
أفنو	PORTO IN THE RESERVE OF THE PARTY OF THE PAR			

Methyl violet toner, tungstated, PTA, bbls., same basis ib, 4.7	0 5.20	Naphthol arylide red toner deap shades, bbis	9.50	. []
4.4Methylene dianline (p.p-di- eminodiphenyt methane)		ight shades, bbs	7 75	
crude, dms., t.l., f.o.b b. 1.7 puril., liake, same basis lb. 2.2	26 _	1-Nephthol-5-sulfonic acid (see L acid). 1-Naphthol-5-sulfonic 8-amino acid (see S.a.	ridi.	"
Methylane di-p-phanylane di-isocyanata (see d 4.4,-di-ieocyanata). Methylane chlorida, tanka, 4,000 gal	phenylmethane	Naphthylamine sulfonic mixed acid (see Cle- a-Naphthylamine, tanka, f.o.b.		Ш
	35 –	works	2.10 nt's acki).	`
Mathylphenylpryezolone (see 1 - Phenyl-3-me) 5).	thyl-pyrazolona-	2-Naphthylamine-1-suifonic acid (see Tobia Neatsloot oil, 20°F, t.l., t.o.b, works	8 8CIO).	" }!
e-Methylsfyrene, f.o.b. skipping pt. lb	44 - 38 -	dma	.52 .47	-
Methylthianine chloride (see Methylene blue). Mica, dry-ord., joint cament, plastic, 50	-	30°F, 1.l., f.o.b. works lb. tanks, t.o.b. works lb.	.52 .44	-
	07% -	40°F, dms., t.1, t.o.b. works lb. tanks, f.o.b. works lb.	.48 .3 <del>0</del>	.49
	07 -	Delivered prices apply on shipments with Philadelphia, Pa.; other areas, 1 44	higher T	redius of exas, 2c.
bgs., c.t., I.o.b. worksib.	1844 – 1834 –	Neomych suilate, USP, non-sterile,		
	22 -	dms., 50-ktlo, lots, ectivity ba- els, divdkilo, Neopentyl glycol, sturry, 90%., c.1., t.1.,	75.00	-
	361/2 .461/2	dvdb. powder, fleks, bgs. t.i., dvd ib.	.522 .595	-
	.381/4 .48	Nerol, tech., dme	5.30 4.80	5.75 5.00
	.38 -	Neroll oil, NF French Bigerede, botsklip 1	580.00 1	850.00
80-90 vis., tenks, refy gal. 2	.42 - .45 -	Turrislan, bota	7.05	-
USP 160-190 vis., tanks, refygal. 2	.53 - .54 - .58 -	Nerotin, Brometinkilo Niacinamida, USP, t.I. dmskilo.	7.22 8.00	- 1
	.65 -	Niacin NF, dms., 5,000 kilos or more, divd	7.50	- Ì
tanks, New Jersey gal.	.83 1.88 .76 1.79	feed-grads, 98-99.5%, bgs., sams basiskilo. Nickel acetata, dms., 5,000-lbs. to 1.1.,	5.10	5.50
Minerel apirits, petroleum, reguler,	.41 1.49	divd. E	1.82	- 1
Houston, Tax gal. 1	.41 1.43 .52 1.95	lbs. to t.l., divd. E	3.45	-
Molybdenum metal, com,t., powd.,	.50 -	divd. E	1.19	-
Molybdenum trioxide, CP, dms.,	.25 -	Nickel metal, slectro calhodes, cs.,	1.25	-
	2.85 2.85	workslb. Nickel nitreta, dms., bgs., 1.l., divd.	3.45	-
Molybdic sold (See Ammonium Olmolybdete)	2.65 2.85	E	1.18	_
Monoammonium phosphate, tert. grede, min. 13% N. 52% P.		lb. lote, 1.o.b workelb. Nickel sulfste, bgs., 1.l., dvd, Elb. Nicotinic scid jeee Niscin).	.80	.90
	5.00 -	Nicotinemida (sea Niacinamida). Nitric acid, 36° Be., 38°Be, 40°Be,		
Monosmmonium phosphete, lach bgs., c.t., l.l., works, irt.	4.00 –	42°Be. tanks, c.l., works NF, 100% basis ton	195.00	_
food grede, bys., cl., t.l., same ba-	9.25 -	941/2% to 98% HNO <sub>3</sub> , tanks, works,	280.00	-
	1.69 - .96 1.00	o-Nifroaniline, Itake, dms, 1.l. worksb.	1.51	-
Monochloroacetic acid, purit. (sea Chloroace Monochlorobenzeno, tanks, t.o.b lb.		niolten, reid., tanks, works lb. molten, tech., works lb.	1.44	Ξ
Monosthanolomina, tanks, trt. alid.	.43 .46	o-Nitroanlina, crenga tonar, bga., trt. alid	1.90	-
Monoethylemine, 70% aqueous tanks, frt. prepakt, t00% basisib.	.94 -	rnin., works	1.63 8.75	=
enhyd., tanks, sems basis ib. Monoisopropanolamins, dms., c.l., irt.	.92 -	Nitrobenzene, tanka, I.o.b lb. o-Nitrochlorobenzene, dms., t.t., c.l.,	.38	.34
elid. E,b. tanks, seme basisb.	.78 - .68 -	f.o.b	.82 .74	Ξ
Monoisopropylamine, enhyd., dms c.l., trt. prepald b.	.78 -	2-Nitro-p-cresol, tech., dms., t.l., int.	1.75 2.50	=
tanks, semo basis	.78 - .54½ -	Nitroethans, tanka, divd. E Ib. Nitrogan solutions, direct application, over 32% N, and mgf. type.	250	_
teined basis frt. equeldlb. 25% soin., tanks, irt. alid. 100% basis	.57 -	works unit-ton. direct application, 19-32%	1.20	-
40-80% soln., tanka, irt. equald. 100% basis	.631/2 -	Nitrogenous eswage sludge, proc-	1.26	1.45
Monopoteasium glutamete, dme., 890 lb. or more, irt. elid lb.	2.50 -	Chicago Lulk, 1.0.D.	4.10	-
Monosodium glutamete, 50-lb. bgs.	.75 .80	NOTE: Price is per unit NH, plus \$1, per producer a works, Chicago.	rum a.p.e	). DUIK, 1.0.D.
t 00-lb, drums, c.l., t.l., dlvd lb. Monosodium phosphale (see Sodiumphos)	.85 hata, monobasio)	Nitrogenous tenkage, processed, bulk, per unit-ton NH <sub>3</sub> , f.o.b. Carrot- ville, Wisc	7.00	_
Monton wax, orade, Imp., German . Ib.	.07	f.o.b. Forbes, Me unif ton	6.75	. <del>-</del> .
shipi.pi	8.00 -	expanded, bulk, c.i., per unit-ton N, t.o.b. Fornestdele, R.i. unit ton Nitromethane, dris., t.i., divd. E lb.	6.35 2.37	Ξ.
Morphine atkaloid, NF, 25 k lots kilo 101 Morphine sulfate, USP, 25 k lots kilo 85 Morpholine, dms., c.l., irt. atid. E b.	0.00 - 1.02 -	o-Nitrophenol, drns., 1.0.0. works to.	1.00	1,45
tarke, frt. 8kd., E	.94 -	2-Nitropropane, tanks, frt. alid. E b.	.55 1.16	
Musk syn., embrette, 20-10. one	6.00 7.00 10.75 -	m-Nitrotokene, tech., dms., frt. ald.b. c-Nitrotokene, dms., c.l., f.o.b lb. tanks, same basis b.	.65 .48	.57
Musk. syn., xylol, dms	3.60 -	p-Nitrotoluena, tech. dme., c.i.,	83	.85
Musterd seed, Brown No. 1	24 - 25 -	Nonviohenol, tanks, f.c.b. E. of Rock-	.70	-
Oriental No. 1 bgs	.25 1.30	les min. 1(1. 600	,49 nylpropan	53½ plamine hy
Myriatio acid, comi., pure, t.i., bgs. 10.	1.12	Norephedmis hydrocarcitics (see Fred dyochloride) Nutmeg oil, diet., East Indien, NF, dmit	27.00	28.50
Myristica cit (see Nutmeg oil). Myrrh gum, bgs	2.25 -	Nutmegs, East Indian, wholeib.	2.95	8.00
			!	
· 1 大學士	114 18		17 18	4.4
	ng relation			
Naphtha, high solvenoy (see Solvent napht) Naphtha, petroleum, cleanere (see Cleaner Naphtha, petroleum, cleanere (see Cleaner		Ochre (see lion oxide, yellow, nat.): Cootea cymbarum ofi dins. b. 1-Octadecanol, syn., tanks, f.o.b. b.	2.25	2.30
Naphtha, petroleum, deaners use closure Naphthe, VMAP, petroleum, tanks New Jersey and New York-	129 134	1-Octadecanol, syn., tanks, f.o.b	43½ 70	7
Tay Co	1,20	n-Octane, 97% min., tanits, Icob. Houston, Text	8.25	- 1
works.	4	CIS decut philadele fenks.	1.40	1.78
Nephinetene, printerio	23/2	U-Octal u-oscal buttisiere ieuro	.331/2 5. 2.60	.37
Naphthelene, perforeum b.	30 324	Octypnendi morien 100		75/2
aglers, jobbers, dms., b.	65 77 16 32	Oflicios of, iq. dms.	.40 .32	50
Nachthanicació, crude i tam, franche hacis	75 1.00 181	Oleic sold ablidist, (White), dime. 10.	.46 .68 .43	.58 .44 .49
8 Naprithol ground, used in long of	1.10	tanks : 10 lb.	. 35	4 -41
b Nephthol lech lieke, ava. b.		September 1, 1986		CHEM

0	Naphthol arylide red toner deep shades, bbls	9.50	<u>.</u> T	
	ight shades, bbls	7.75	r).	
	1-Nephthol-5-sulfonic acid (see L- acid). 1-Naphthol-5-sulfonic 8-amino acid (see S.a.	cid).	, I	IVI
hane	Naphthylamine sulfonic mixed acid (see Clera-Naphthylamine, tanka, 1.o.b.			
	1-Naphthylamine-5-sulfonic acid tase Laura	2.10 nt's ackt).	·	
lone-	2-Naphthylamine-4,8 disulfonio acid (see Ca 2-Naphthylamine-1-suffonic acid (see Tobia	ibselia acki a acki).	<b>`</b>	
	Neatsloof oil, 20°F, t.l., t.o.b, works dma	.52	-	WEEK
.	30°F, 1.I., 1.o.b. works	.47 .52 .44	-	_
.	40°F, dms., t.l., t.o.b. works  b. tanks, f.o.b. works  b.	.48 .30	.49	Oleum (see Olibanum g Olive oli, ed
.	Delivered prices apply on shipments with Philadelphia, Pa.; other areas, 1 44	n 300-mile	radius of exas, 2c.	Italian B
.	higher and West Coast 3c. higher. Neomycin sullate, USP, non-sterile,			Olivine, cru 20 me
-	dms., 50-klio. lots, ectivity ba-	75.00	_	Oplum. U
461/2	Neopentyl glycol, sturry, 90%., c.i., t.i., divdb.	.522	-	Orange of
48	powder, fleks, bgs. t.i., divd lb. Nerol, tech., dme	.595 5.30	5.75	express
.40	perf. grade, dms	4.80	5.00	Calil., di Florida, Brezillar
	botskilo 1:	150.00	350.00	West in
_	Nerolidol syn. 55-gal. dms lb. Nerolin, Bromelin	7.05 7.22	-	Orange pe Orange pe
-	Niacinamida, USP, t.i. dms kilo. Niacin NF, dms., 5,000 kilos or more,	8.00	•	Turkey Mexico
.88	divd kito feed-grada, 98-99.5%, bgs., sams	7.50 5.10	5.50	Origanum Orris root
.7g	besis	1.82	5.50	powr
.49 .43	divd. E	3.45	-	Verone
.95	Nickel chloride, bgs., 10,000-lbs. to t.l.,	1.19	-	Oxalio ac
-	Alickel fluoborate, liq. conc., dms., t.t., dlvd. E	1.25	_	b-Oxyna
-	Nickel metal, slectro calhodes, cs., works	3.45	_	Oxyquino
2.85 2.85	Nickel nitreta, dms., bgs., 1.I., divo.	1.18	_	Oxyquin
	E	2.80	_	
	Nickel sulfste, bgs., 1.I., dvd, E Ib. Nicotinic acid lese Niacin).	.80	.90	
-	Nicotinemids (ses Niacinamida). Nitric acid, 38° Be., 38°Be, 40°Be,			
_	42°Be. tanks, c.l., works NF, 100% basis ton	195.00	_	1 =
	941/2% to 98% HNO <sub>3</sub> , tanke, works, 100% basis ton	280.00	-	Pallediu Palm o
1.00	o-Nifroaniline, flake, dms , 1.l. works	1.51	-	Palm o
оло)	molten, reid., tanks, works lb. molten, tech., works lb.	1.44	-	s.d.,
.46	o-Nitroanlins, orengs tonsr, bgs., trt. alid	1.90	-	Palm
-	p-Nirroansine, orns., c.t., c.t., sc., oco ib. o-Nitroanisole, 100-kilo lotakilo	1.63 8.75	-	Palmer Palmitik
-	Nitrobenzene, tanka, I.o.b	.38	.34	'ter Papave
Ξ	tanks, sems basis	.82 .74	Ξ	Paprika
_	2-Nitro-p-cresol, tech., dms., t.l., irt.	1.75	_	Span Paratfin
-	Nitroethana, tanka, divo. E	2.50	-	1
-	over 32% N, and mgr. type, works	1.20	-	1
-	direct application, 19-32%	1.26	1.45	al to
-	Nitrogenous sewage sludge, proc- sed, bulk, i.o.b.	4 10		AMP to
-	Chicago unit ton. NOTE: Price is per unit NH <sub>3</sub> plus \$1, pe	4.10 Funit a.p.e	. bulk, f.o.b	Parafor
.80	producer a works, Chicago. Nitrogenoustenkage, processed, bulk, per unit-ton NH <sub>3</sub> , f.o.b. Carrol-			Peralde
obasic). .57	ville, Wiso unit ton	7.00 6.75	-	tanks Parathi
-	expanded, bulk, c.l., per unit-ton N, Lo.b. Forrestdele, R.l. unit ton	6.35		Parathic Para to:
<u>-</u> :	Nitromethane, dris., t.l., dlvd. E lb.: c-Nitrophenol. dris., f.o.b. works lb.	2.37 1.00	Ξ	Patchou
=	p-Nitrophenot, orns., c.t., 1.0.0.	1.05	1,45	Peach k
7.00	2-Nitropropane, tanks, frt. alid. E	1.15	Ξ	Peanut o
-	o-Nitrotoluene, dms., q.l., f.o.b   0. tanks, earne basis   b.	.65 .48	.57	Pelargo
_	p-Nitrololuena, tech. dme., c.l., works	.83 .70	.85	
2	Nonytohenol, tanks, 1.0.0. E. Of HOOK-	49	.531/2	Penicilla
	Motebuegans undirectione fees Lie	nylpropano	demine hv-	
7	Nutring oil, diet., East Indian, NF, dmikilo Nutrings, East Indian, whole, ib.	27.00	28.50	Pennyro Pentaga
_	Nutmegs, East Indian; wholeib.	2.95	8.00	Penteer
				Penteer
		1		Pentaer
1.7		erio. Grafia	1.	Pentoba
do)				Pentoba
ANI).	Ochre (see Iron oxide, yellow, nat.):			Pentyler

# HEMICAL

WEEK ENDING	AUGUST	29,	1986

	TELLIC ENDING MODICO		1000
l	Oleum (see Sulfuric acid, fuming).		
١	Olibanum gum, tears, bgs lb.	2.10	_
ı	Olive oil, edible, 6 panish, dms gal.	8.00	-
ļ	Italian B-type gal.	5.35	_
l	Olivine, crude, works	12.00	_
ı	20 mesh, works ton	15.00	_
١	100 mesh. works ton	20.00	_
l	Oplum. USP, gran. powd. 25-kilo		
١	lotsklio	125.00	_
١	Orange oil, expressed, USP, Calif.,		
ì	dms., f.o.b. plant lb.	1.20	_
1	expressed Valencia, dms lb.	1.00	1.20
ı	Call., dist., cna. 1.o.b. plent lb.	.40	
1	Florida, dms	.50	.55
Į	Brezilian kilo	1.20	
I	West Indian, bitter, NF X, cns.,	******	
1	dmab.	8.50	_
Į	Orange peel, bitter, Haltian bie Ib.	.38	_
	Oregano, Oresce, 30M b.	2.05	_
ı	Turkeylb.	2.05	_
1	Mexico. Bo.	1.05	_
	Origanum oil, Spanish, cns kilo	35.00	_
	Orris root, Florentine, bis b.	4.00	_
	powd., bble., bxeb.	4.60	8.00
	Verona bis	3.00	0.00
	powd., bbla,, bxsfb.	4.60	5.00
	Ouricury wax, reid., pure, bgs lb.	3.25	3.35
	Oxalio acid, bgs., c.i., works ib.	.44	
	b-Oxynaphtholc aold dms. works,		
	tech	2.55	_
	Oxyquinofine base, pure, 1,000 fbs		
	frt. aldb.	8.00	_
	Oxyguinolina aulfete, 100 lbs. tri.	0.00	
	alid	4.00	_

Palladium matel west a Trans-	145.00	_
Palledium metal, works Troy-oz. Palm of, (see Oils, Fata & Wexes Market	Report)	-
Paim oil acid, dibi-dist, dms	.3172	-
tenks	.30	
s.d.,dmsb.	.42	.45
tanksb.	.35	-
Paim kernal oil, bulk, c.l.f., U.S.	.10	.10%
poris	36.00	
Paimitid sold, 90%, tech., bags ib.	.53	-
'tenks	.51	-
Papaverine hydrochloride, NF powd.,	F0.00	
Imp. bulk	58.00 <b>08</b> .	Ξ
Paprika, Hungarian, 100 AU bgs ib. Spanish, t10 AU bgs b.	.90	_
Paraffin, fully-refd., 127-130 F., ASTM,		
tanks, rety	.29	.35
13D-135 F., ASIM, tarka, rety.	.331/2	.39
140-145 F., ASTM. tanke, refy.	.35 .41%	.4172 .46
150-155 F., ASTM, tanks, refy. alack wax, 5% oil, tanks refy	.18	-
12% oil, tanks raiy	.21	-
20% oil tenks m/v	.16	
ALAD termorph mas are an arbitrary 3F his	gher than A	ASTP.
Paraformaidshyde, vira, lieke, ogs.		_
CL.LL. GIVG	.26½ .39½	-
95%, powd., bgs., c.t., t.l. dvd. lb. Persidehyde, tech., 98%, 55-gal. dms.,		_
Li, dvd. E	.75⅓	-
tentro dud F	.581/2	-
Parathion, ethyl, dms., trl. aid fb. Parathion methyl (see Methyl parathion).	1.75	-
Parathion mathyl (see Methyl paraumon).	3.75	
Pare tonerred, bbls	3.75	
Patchouli oil, indonesian., Cms., Kto	20.00	22.00
Deach Lornal Of LLRS (MAS ADDICOL KEETIS)	O <b>II</b> ).	
Pagnut masi (see Oits, Fals & Waxes Mar	KBI PEDORU	
Peanut oil (see Oile, Fats & Waxes market	(tabort).	
Pectin dom., NF, citrus, powd., 100- kilo iots divd	3.30	8.70
Pelargonic acid, nat., tanke, min. frt.		
aun	.70	
syn., tarks, f.o.b. frt. aldlb.	70	. <del>-</del>
Penicilin, potassium, non-sterile, 200- bilion-unit lots, billionunits	20.00	25.00
Penicilin, proceine, eterie 50- billion-		
LIGHT IOLS; CORK DIKION UTITES.	36.00	_
Pennyroyalol, dma	5.90	:
Pentechiorophenol, 50-10. Ugs., C.I.,	.56	il (⊒), .
Pentaervibriol, tech., bos., c.l., i.c.b.,		
1.o.b. Wichita, Karl b. Penteerythrijol, tech., bgs., c.l., i.c.b., frt. elid	.71	72
Pentaerytration, of- and un-somers (see	Dipenteen	ymnicol end
Pentaerythritol friacrylate, I.I. dma.,	1.50	
Pentobarbital, dms., 100 lbs, or more,	,	
Pentobarbital, dms., 100 lbs. or more, frt. sid	7.00	•
Peniobarbitel-sodium, dms., 100 lbs.		
or more, divo	14.00	7 T
Pentylene tetrazbi, NF, dms., 200-kilo	32.00	1
Pepper black, Brazilien, bgs ib.	1.90	1.67
Lampong bge	1.97	1.93
Maladar, Doa	1.89	1,97
Telligherry, bga	2.30	-
Pepper, red Chinese Fukien rice bgs to	.89	
Halmen, bgs,	1.00 76	ាំ 💆 🕝
Indian, S-4, bos	.70	6. 6
Pakistan dundcuta bgs b.	. ; 43	, i ,
Indian, S-4, bgs	2.40	2.45
Papaarinak leaves, and., cans	2.65	1975 N
Peppermint oil, Madras	14.00	التي و
Midweal b.	15.00	1,1-4
the state of the s	6.00	描述する
Yakima		

CHEMICAL MARKETING REPORTER September L. 1986

9 29	7 13 7 13
13	The second secon
0	
9	
3	
1	
0	
The	
<i>J</i> )	

. <sub>(1</sub> )	: [		, 14		والمستوالية المالية			- I Shitala and a black and a standard			1 Batanahan bili sada sash dan si			~
į,	<b>!</b>	: [	: ".			A		Phihalocyanine blue tonar, weter dis parsabla, bbts., aama ba	-		Potassium bifluoride, tech., dms., t.l works., trt. equaldk	45	.40	Į
1					HEMI			Sie	,	7.75	Potassium bitartrata, NF, gran., povd		1.20	ŀ
į.	H.	i.	•	IVI		V	46	bbis., irt. alid. E. of Rock lesb	•	t0.t0	Potessium borohydrida, powd. dme 100-1,000 bs., works k	18.00	20.00	Į
4					RICE	~		Phthalocyanina green toner, resinated			Potassium brometa, gren., powd.		20.00	ļ
. [			٠.		JICE	2		bbis., same basis ib. Phihalyisullacetamide, dms., 500- kilo	)	9.20	200-lb. dms., c.l., f.o.b. workslb	. 1.05	-	۱
	111		2.0		MUE.	3		lotskilo. Picolines, refd, mixed, bulkkilo	6.61 2.61	Ξ	Potassium bromide, NF., gran., dms. c.l. f.o.b. worke	•	_	I
. []	H		į.					Picric acid, pura paste, 25-lb. ctns., c.i., dry baels, 1.o.b. Charlotta,			Potasalum carbonate, liq., 47% K,CQ			I
	111	1	11.	WEEK	ENDING AUG	UST 29	1986	N.C	6.00	-	tanks, t.w., works 100 lbs dms., c.l., t.l., works t00 lbs	. 20.55	-	l
1 1		1 : ' !	ľ				1 1500	tech., paste, 25-lb. cins., t.l., dry ba- als, f.o.b. Charlotte, N.C lb.	5.00	_	calcined, 66-100% K <sub>2</sub> CO <sub>2</sub> , hoppe			Ì
- 1				distr.	ylene, dry cleaning grad tanke. divd	la 281	½ -	Pigment green 6, kgs	2.20	100	works 100 lbs	. 32.50	-	I
: ;			i.	ava.	ede, consumera, tenk	rs, lb 31	_	dms	t,500.00	2,000.00	Potassium carbonate, hydrated, 63		_	I
	H			Peri acid. dms	sci 28, (red 46), calciu	h 966	_	Pimentoleal oil, dms	14.50	-	66% K <sub>2</sub> CQ <sub>2</sub> , dma., c.t., t.f. works 100 bs	. 34.60	_	l
ij	1	17:	, ,	Sans.	, dms., frt. alld	h 526	-	bulk, 1.o.b. works 100 lbs	47.00	53.00	bgs., c.l., I.l., works 100 lbs Potassium carbonete, gran., purif.		-	l
#.				reru barsam. 1	1.0.b	h 995		dms., c.l., t.l., same basis 100lbs	51.00	54.00	400 -lb. dms., 5-dm. lots lb Potassium chlorate, cryst., dms., c.l.,		-48	l
ij			. l r.	retroletum, t	Paraguay JSP, snow while, dms	3.,	6.25	e-Pinene, perfume grade kilo tech. grade lb.	t.62 .16	.23	workslb			ı
Ŋ	1	11	, , <sup>i</sup>	c.i., re tanks. raív	ely	b375 b910	-	b-Pinene, perfumery grade, tanks kilo tech. grade, tanks		.40	powd., dms., c.t., works lb purlf., gren., 325-lb. dms., f.o.b		-	l
	112			USP, son w	/M18,clms.,c.l.,refy. , i	b375	-	Piperazine, anhyd., dms., I.i., irt. ald. E		0	ahipping pointib Potassium chloride, chemical grada	40	-	l
(1)		4, 5,		USP 700 wh	ita. dms., c.l., refyi SP, Lilly white, tenke,	b370		Piperazine citrate, 36%, dms., t,t00-	1.60		99.65% KCl, bulk, c.f., f.o.t workstor	)		l
	\$   i	3 %		nerv	o. dms., c.l., rely	305	-	lb. lots, frt. aldlb. Piparazine dihydrochloride, 53%,	2.25	2.35	USP cryst, dms	1 12	_	۱
	111	3 4		CEUTIKS, FEITY		30	_	dma., t.l., frt. elid fb. Piperazine hexahydrate, 44%, dms.	2.00	-	USP gran., dms	67	Ξ	l
- F		i i	: : - !:	tanks, retv.	allow, dms., c.l., refy It	\ 9R5	-	1,100-lb. lota, frt. alkt lb. Piperazine phosphela, 42%, dms., tt.,	t.60	-	Potassium chloride, agricultural (see P Potassium chromele, puril., cryet.	otessium mi	ıriata).	ı
$:=rac{\partial}{\partial t_i}$	ill	清井	ij.	IBNKS, rely.	r, drns., c.l., refy lt	ነ	Ξ	frt. alid	t.60	-	dma., works	57	-	ı
, [	311			PHIT OWNLING DAYS	h (see Asphalt, petrole) onate, 50-62%, sulfoni	HAN'		workskilo.	6.92	-	dms frt. ald	8315	-	١
	. 318	1: 1	<b>1</b> 14	conj.,	HMW, bulk, worke lb me basis lb	. 48%	.48	Piperonyl butoxide dms., divd. E ib. Platinum, metel, works Troy oz.	5.00 630.00	-	Potassium cyenide, dms., 20,000-ib lote or mora, f.o.b. works ib	1.32	-	l
			) ( ) 	LMVV. san	na basis Ib	.10	.4914	rolycaroonata rasin, pelleta, nat., 1.1.,	1.84	1.66	Potassium dichromete (aee Potassium bichromate).			ĺ
- 1		-4 F	1   -:}	50070	% sulfonic content 2c ing molecular wts.		r on corre-	Polyester ream, unsaturated, 8-p., or- thophfhalle, bulk, tankcara,			Potassium liuoborate, tech., dms., c.i., t.L. works, frt. equald ib.	t.40	1.40	١
		可力	: 3	1,000-	P, powd., 200-lb, dms., lb. lots, divdlb.	. 2.29	-	irt. alid	.51 .56	.53	Potaseium Iluorida, anhyd., dma.,		1.42	l
1		4		p-Phenetkine.	. 1,000-lb. lots, divd. lb. dms cl fo b	2.22	2.45	Polyethylene resin, high-density, blow molding, g.p., hopper care, tri.	,50	.62	Potassium gluconeta, cms., t.l., f.o.b.		-	-
11				Phenobarbitat lots., f	. USP, dms., 500-kilo Lo.b. works	t9.50	_	8/IC	.43	.46	Price W. of Osnver 4c, per lb. higher	1.45	-	l
	: }[]	34.	[. ]	Phanobarblis!	-sodium, NF, 500-kilo o.b. works		-	injection motding, g.p.,hopper care, frt. ald	.43	.46	Potassium gualacolsultonets, 300-lb. dme., 600 lbs. or mora (rt.			l
	: ]]}		Y	Phenol, syn. tai	nks, irt.equaldib. nic acid, 65% sol'n	25	.26	extrusion, g.p., hopper cars, same basis	.47	.48	equeldlb. Potassium hydroxide, tech. (see Potas	2 t0	-	ı
	· M			cmsc	C.L. lobworks ih	8.4	-	same basis	.45	.48	Potessium hydroxida, USP, pallate.			l
				Prienotniazine,	basis		-	wire and cable, black, earne be-			100-lb. dms., c.l., t.l., works. frt. equald	4 00	1.31	ĺ
<b>!</b> !	114		: 10 : 1	purif. grade.	c.i., i.o.b. works ib. same basis ib.	2.33 2.69	-	Polyemylane resin, low-dansity, film	.551/2	.57	Potessium lodide, U3P, gran., cryst., dms., 1,000-lb. tots divd lb.			ł
1	1		i i	Prienys acets:	a, ama., 100-lb. lots,	104		iner, hopper cars, frt alid ib. clarity film, hopper cars, frt.,	.38	-	ACS grade truckload	11.32	12.38 13.55	ĺ
1	2		17.1 . 1	rmenyracetic a	ed, pure cryst., 25-lb.		-	pallel strink film, hongar care	.37	-	Potassium-magnasium suitate, std., bgs., workston	59.00	_	l
		- ji ii		OI-PRENISIA	nine, dme., 25-kilo	)	-	extrusion coating hopper cars.	.35	-	basia 40% K <sub>2</sub> SQ <sub>4</sub> and 55% Mg6Q <sub>4</sub> bulk, works ton	87 OO	_	l
		11 1	H	1-P18797-3-CA7	belnoxy pyrazolona-5.		-	sama basis	.36	42	Potassium metabisulfata, gran., dma.		_	l
į (	!.	: ;		m-Phenylenedis	ou-io. iois, giva. E ib. Imine. cast. dins. c.i.	3.45	-	Polyethylene linear low-dangity a.n.	.38	.42	Potassium muriete, 60-62.4% min.		-	l
	٠	· i		: I.J., I.G Phenylenedis:	D. WORKS	2.07	-	reainblown film reain	.36 .40	.40 .43√2	K <sub>2</sub> Q, std., bulk, c.l., irt. equald., i.o.b. Sask.,			ı
	1:			1.O.D. W	orks	3.25	- ]	cast film realn	.40	.45	Canadaton soluble, fine std., l.o.b.		45.00	
	. 19	-3 %	١,	1.0 b. w	orkeib. hydrochloride, USP	4.00	-	tion molding, g.p., hopper cars, same basis ib.	.45	.48	Coarse, I.o.b. Sask	48 00	47.00	
1	1			100-кио	1018 of more fello		185.00	line wire, CATV, power cable ib. wiraend cable thermoplastic high-	.647	-~	eran., I.o.b. Sask ton Potessium nitrate. fart. grade, atd., 50-	50.50	50.00 51.50	
) is			. 2	-r-nenyamyi arc	ate, dms lb. ohol, NF, dms lb.	3.35 2.65	3.40	voltage, netural color, same basis	70		ton c.t., divd. SE ton	267.00	274.00	
	10	1 1		ormore.	ine, dms., 30,000 lba. fnt. alid	t.50	.	wire and cable, XLPE low voltage, t4% carbon black, eame	.70	.741/2	prilled ton tech., gran., bgs., c.l., min. 50 tons,		284.00	
				C/18	Myi ecalata, 25-lb.	5.50	6.60	D888	.671/2	.721/2	divd101 Potassium oxelata, neutral, tech., fine	470.00	-	
	3 11		P	henyihydrazine.	CIC (586 M3ndello acid). . 89% mio., dma — lh	3.50		wiraand cable jacketing, black tb. Polymyxin sulfate, USP, bulk, 50-billion	.567	.667	gran., powd., 300-lb. dm., frt.	254		
1	. *;		1	-rnenyi-s-me dms 2f	i Tryl-5-pyrazolona, SO-b Joladivi E. Ib		-	Polyoxyethylene eorbitan monos-	.52	-	rutasaium pentaporata, aran, bris	2.54	-	
	b 38	- 13	0		dms., t.l., works lb. bgs., tl., 40,000 ibe.	1.80 t.35	2.00	works, dms., 20,000-lb. lots,	.73	_	o.l., works	1.01	- ]	
- (		- 1 31		or inore.	worksib.	1.85	- 1	Polyoxyathylene sorbitan tristsarate, dms., 20,000-lb. lots,		7	Potassium pentaborate powder 150. pe Potassium perchloreta, dms. c.l.,	r lb. higher.	1	
	7	Address of the second	in a	1 UO- KHO	dm	24.00	28.00	Polypropylane resin, homopolymer,	.78	-	Potassium permanganata, free Now-	.78	-	
- ļi			: <b>'</b>	<b>C.</b>	, purit. cryst , dms., lb.	2.75	_	Q.D., D61 t.l. [7] Alld lb	.45	.46	ing, bulk, hoppar trucke, worke	4.00		
,	5 .		9	flake.E.		2.25 2.35	- 1	copolymer, med. Imped, net.,	.50	.56	ou-kg. dmg., sama basis	1.20	-	
ļ:	1 6	1		Alid .	(red 90), dms., frt.	1.85	2.05	Colored material 6c. perib, higher for	.53	.60	150-kg. dms., same basislb. Potessium permanganeta, USP, 30-lb.	1.17	-	
!;	$\frac{1}{2} = \frac{\sqrt{2}}{4}$	۸.		cumiti	PR WOOKS	55	2.05	Polyetyrene resin cryst net honor			Potasaium persulfeta 225-ib dime	1.39	-	
1	i iti			of mine	, ria., iano peoble, rus Washed 66-68% h n l		.67	Impaci, nat., hoppercara, same ba-	.48	- '	24,000 lbs. or more, i.o.b.	78 80	,	
				DUKC.I.	mines ton	23.15		high heat, high impact, net hop- per	.61	-	ci/ti same basis	76.60 72.60	-	
1			P	mospnone ac	id, com'i, end lech.	28.00	- [	expandable heads (FPS) phoins	.52	- 1	equald			
11	1			Works.	e, 75% lenke, 100 lbs.	29.00	- i	modified same back	.59	-	buk, sams basis 100 lbs.	43.75 48.00	47.25 46.50	
	18		:	4.N.6°C	s,works 100 lbs. tanks, l.o.b. freight	31.00	-	Polyvinyi stochol, fully hydrofyzed, medium viecosity, bgs., t.l.,	,78	-	b. drns., 2.000 lbs. or more			
3	1	- 63		r oca grece bru	100 lbs. 200 sbove tech. g	33.50 rade.	-	divdb. partially hydrolyzad, medium viscos-	1.00	1.05	U6P, powd., 300-lb. dms. 2 000 lb.	1.52	-	i
	1			02-54	o, agricultural grade, % e.p.e., tenks,			INV. DOS T.L. CINCI III.	1.05	٠, ١	Potassium ellicate, soin, 28 8-30 2	1.42	-	1
4				euper, m	unit-ton in. 70% e.p.a., earne	3.10	-	Polyvinyl chloride rasin, g.p., homo- polymer dispersion, bgs., 1.i.,			6e., 2.5 ratio, 1.o., t.t., works	40.00		
		enan de au	P	basis hosphorus, wh	unii-1011. ite (vellow) solid dima	3.45	-	8-p. suspension, bulk, same be-	.50	-	UIIIB. C.I. 11 WORKS 100 IL-	18.80 25.90	- 1	
	为能			C.I., WO	ks, int. equald fb. wks, i.o.b. works, . lb.	1,00		Dipegrade bulk complesses	.66	-	Potassium allicate, 40-40,5 Be., 2.1 ra- to, t.c., 1.t., works 100 lbs.	25.05	_ · [	į
		\$ 1 1	Р	nosphorus ox	ychloride, tenka, frt.	-91	-	Potyvinyi chloride, s.p. coophyser dia.	.47 .37	.47	C. 1. works 100 in	32.05		,
	5 6		i P	moshučina bi	entesuitide, powd.,	.40	-	6-P. CODOWNEY SUSPENSION PROPERTY.	.58	.61	30-30.4 Be. 21-2 2 mile (a)		1	i
	1	3	ļ · _	tota bina, se	l., works 100 lbs. Rers 100 lbs.	50.00 45.00		Poppyseed Dutch has	.45	.46	dms. o.l. t.1 works 100 lbs.	26.10	_	İ
10: 1		2	ı	nospnorus pe works.	entoxide, dme., 1.i.,	.82	_ [	Potash sociositural (non December 10)	.48		(.l., works	33.10 .	- '	F
	i a			ees eurongeon' c.l., wor	quisulide, dms., cvs.,	-38		Potesh, caustic. Eq., 45% basis, tanks	_	٠	solid or glass, 2.5 ratio, dms, c.f., t.l.,	53.60	- 1	
模				nosphorus in works	cnionde, ams., c.i.,	-40		West Coset 50% hear teaks	18.00	- 1	"Retin" indicator assessment	48.65 at of 810.	dulcted to	·
			· · · · ·	lanks, works hihalic anhyddd	ie. flake c l. I.I. dos	35 .		780 Rake 86-92% 400 to does	18.06	: , <del>.</del>	Olassian salentarente han		· river by	, F
			ſ	motten tanke	rigana franta III.	-	335 305	Poleschar populate NC and 100 lbs.	42,35	- 1	Polassium-socium tartrete Alc	.11%	:15	į
	j	. 191	; <b>j</b>	Prices t 11/2c. p	e, works lb.	st Coast		Date and the late of the property of the late of the l	90	131	Potasskim sorbato (1 desarration)	.80:	1.20	F
		1 1 %		II O LADOCVADUINO C	XVIA CORDE. CARLANACIA			Dotagalum bloomer 100	.311/2		Polarchint stockers I. Wills. ONG ID.	2.20 N.A.	3.10	F
		1	6	Obis., irt, alid. i green shade, s	E. ol Flocides ib. ame basis ib.	6.40	8.60	oma, t.l. b. Poleasum bichromate, gran., 400-b. dine, o.l., t.l., works.	72	监狱	min. 80% K O attl. buk. c.l.		1. 1. 1	F
K	1		· · ·	resunated, bbls	ama basis lb.	6.20	8.75	dins., o.L., t.L. works	.48		Polassem sulfate, gran, puril 400. il	150,00	180.00	F
The second secon		1	40	·	CHEMICAL MA	ARKETI	NG REP	ORTUB Saptember 1	1986	<b>建设料</b>	dura series de la companya del companya de la companya del companya de la company	86		
腿	1				and the state of		1	The state of the s		14	<b>全国工作</b>	e in the god Literature		i.
		100	10.00	J.,							The state of the s	1. 440 C	1 Becco 2. 1	ż

			4	17
ļ	Potassium leti abernto, gran , bgs., c.t. works		-[	Rica bran oil, railined dries. t.1.
	Potossium totraboroto powder 15c per Potossium thiocyanate, 16P const	1.t0 1.t5 tonhigher	:	Richoleic and (see Coasium so Rochete salt (see Potessium so Rochete salt (see Coasiar clich)
	225-lb dms . 5-dm lets b.	4,01		bols
1	Potossium tilanato, ctas., c.l., works. b. Potossium-titanium liuorido, lach.	Jt%.		Rosemary od, NF, Spanieri, Curis
١	das , II , works, iri equaldib. Potassium-zirconium fluondo, toch., dms., 1.l., works, iri.	1.24	124	Rotenone resin, 30-45%, 100-to works
	Prudnisono USP, dnis., 5 kilos or	78		A
	Prednisciono acotata, USP, dms. 5 kilos er moro	1.03	-	
-	Prednisolono, onhyd., USP, dms., 5 kilos or moro 6/am Procoino hydiochlorkie, USP, ambi-	1.12		V
	lots, fil. alid	4.95	535	5accharin NF, gran., soluble, 1,000-lb. lois, trt. alid.
	USP, ompulo grade, dms., 1,000.	4.95		Saccharin NF, powd., soluble, dm than 20,000 lb. lots, int. a Salliower of, non-break, tanks, N.
	Propionic ecid, syn., pure, tanks, divid	3512	5.50	adble dms., N.Y., divo
	n-Propyl ocoleto, tanks, dvd. lb. n-Propyl alcohol, tanks, dvd. lb.	33 53½ 42	34h	Abarian, bgs. Israel Sega oil, Clary, French, bors.
-	n-Propyl gells to dnis., 100 to 2,000-ib. lots, dlvdib. n-Propyl-p-hydroxybenzoats, USP,	t1.50		Dainteffan, cns. Spanish, cns. Seacylakterryce, tanke, f.o.b.
١	fech., 500 kilos	t0.80 t0.36	:	salcytamide, NF, gran., powd., 2,000 b, tots, one ship.
1	mois kilo	55.00		Selogio scid, tech., dma., c. works. USP, cryst., dma., 1,000 i
1	n-Propylamina, dms., c L, divd lb. Propylene, polymar grade, l.o.b. Tax. and La. Gull Coast points . lb.	.17%	20	LSP. powd., dms., 1,000
1	Propylena glycol Indust. tanks. Lo b. Ib.	.15% .40	.18	more. Sad(see Phenylselficylste). Sat, eraporated, common, 60-ft
1	USP, lenks, f.o.b. E	.43		cl, tl., North, works buk, same basis chemical grade, same basis.
1	Propylena oxide, tenks, I o b. works, frt. equeld	.471/2	178	Sut not, medium, coarse, se
ĺ	Pumice, dom., line, 4F-0, bgs., ton	1.50 270.00	125	buk, same basis Sahcaka, dom., bulk, works, N,SO, basis, Lo.b. work
1	modium, 01/2-11/2, bgs., ton lots . ton coarse, 2-axira coarse, bgs., ton lots	300.00		same basis W
	Pumica, imp., Italian, lines, bgs , ton lots I.o.b. East Coast ton	280.00	-	indonasia Sarcosine, tech., tanks, work equald.
	Coast	350.00	-	Scheffer's salt, pasta, dms., basis, works Scopolamina hydrobromida,
	Pyrazolono rod (rod 36), dms	300.00	-	\$eback sold, CP, bos., c.l., wor
ĺ	Pyrethrum flowers, tino ord. 0.8% pyrothrins, ton lots, irt. skd.lb.	5.25 1.91	538	purt_bgs, cl_ worke. Sediz redure, dms., 5,000-lb. Seerium, powd., 99,99% So.
1	dms. works	37.50	37.75	toni.,99.5% Se, same basis.
	Pyridins, rold., 2-deg., c l., works dmskilo lankskilo	5.90 5.70	Ξ	Serns leaves, Alexandria, who half bis. Two evely, No. 1, bis
	Pyridaxine hydrochlonde, USP, 100 kilosormore, divdkilo Pyrilas, Conodtan 48-50% S.	29.00	3300	Sesame of USP one 1c.L. Sesame seed. Central Ama
1	Pyrogalic acid (see Pyrogalic)	4.50	5.00	Sierne pigment burnt pane
١	Pyrogeliot, t00-lb. dms., 1,000-lb., lols, dvd lb.	13.70	t525	161, works.  784, paper bgs, 161, works.  Sica, amorph, dry-ord, bro-
1	A			Sica. anorph. dry-grd., bg. works 83%, 200 mash. 98%, 200 mash. 93%, 97%, 325 mash.
				91.5% 325 mesh
1	4			10 mesh, micronized.
1	Quassie chips	.57	21%	95% under 10 micron
	rod, dms., fri. niki lb. scariot, dms., fri. niki lb.	20.75 17.75 21.76	19.00 24.25	mest tree of succession
ı	Quinco sood, bas	17.76 2.00	2.75	Secon latrachicoido, tech., dri
ĺ	Quinidino sulfeto, USP, 1,000-oz. done., 2,000 oz. or moro oz. Quinine hydrochloride, NF, 1,000-oz.	4.20	425	Will belles bearing
1	dins., 2,000 oz. or moro oz. Quinino sulloto, USP XVIII, 1,000-oz. dms., 2,000 oz. or more oz.	2.45	250 250	Marie ACS. 58.2 Troy
	Culnoline, dms., (.l., frt. equaktlb. tenks, sams basis	1.49 1.43		Sod ash dense Figs. 400 in
				DURCE! BONG had I.O.D.
ļ	2			same basis.
Ĺ		i		Gull Coast works, 1.
l	Recementation 1199 50.280	2.12		1 100 26% don 100 100 100 100 100 100 100 100 100 10
Г	Racemethionine, USP, 50-250 kilo kilo kilo kilo kilo	6.80 6.60 6.50		Works.
١,	500 or more kilos	1.07.	254	05608, 78%, 400 lb, dm
11	Rauwolfia serpentine root, powd. bis., dme., kio. Red sarmine. No. 40 (see Carmine No. 40	22.00	9.	higher for solid and s
	leserpine, USP, cryst., bots grafilescripto tech., bgs., t.l., works	46	120	Sole, sel, cone, has
	lesorcinol tech. bgs., t.l., works	3.96°		Sodem scalets, anhyd., bg Lot. works. Sodem scalets, USP, 80%, gr
Ĺ	powd.dma. same basis kilo.	9.36 8.90		
	Podemine ved foner, molyodated.	1.98		ib. lots or more
١,	Iungsteted, PTMA, dms., 1.0.0.	11.00	4.00 05.10	Sodium attitionals bge, c), di
	hodinol, 25-lb. cns.	06.00 . T 16.25 46	38	Sodim benzoets, took have
1	ihubaro root, India, whole, bgs.   b powd, bgs.   boflavin, feed grade, 25 kilos			Manage, USP 50
ŀ	powd, ogs. b.  boflavin, feed grade, 25 kijos.  dvd.   kijos  iboflavin, USP, 25 kijos dvd.   kijos  contracts   c		00	100 to the same been
Ķ	(40 10 to 10	88.00		on-big same basis
6,	12. 1 3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	1	4	

a street. Ih	t.25 - I	Softern biombondo 1100					
ice bran cil, refined drns. t.1 ib. icholeic seid (see Castor oli acids, spilt).		Sodium bicarbonata, USP, powd., reg. grade, bgs., c.l., 1.l., works, frt.		Sodium orthosilicate, tech., anhyd., bgs., c.t., works 100lbs.	34.50 -		
ochete salt (see Potassum south to the	610j.	equald	t7.05 - t6.05 -	Sodium orthositicata, tech., hydrated, liake, dms. c.1, works. 100 lbs.	27.45 -	CHEMIC	
iose oil, net., itr., durgaturi, kilo. 38	350.00 3890.00 250.00 3000.00	tina, sama basis 100lbs.	17.20 _ 17.65 _	Sodium exaliste 99%, how the works the	26.25 -	LUCEMIK	
Turkish, etio., bots kilo. 22 tosemary od, NF. Spanish, drns kilo.	6.00 14.50 6.75 15.00	Sodium bichromate, gran., bgs. c.l., i.t.	t7.60 _	Sodium pentachiorophanata, beada c.i., 30,000-lb min, ib.	.67 -		
190661, 0116.		works, irt. equald ib. Sodium bifluorida, 400-ib. dms., c.l.,	.57 –	bgsib. Sodium pentobarbital (see Pentobarbital-	RR.	PRICES	
worksunit-lb.	.21 .23	fr1. equald	.78 - .76 -	Bodium perborate, tetrahydrate, tech., bgs., c.l., 11., works		PRICES	1
		Sodum bisultato, bulk, c.l., works ton	175.00 - 13.00 -	Goorum persuliste, 225-ib. dms., 24,000	.321/2 .361/2		
2	,	50dium bisuilite, anhyd. bgs., cl., 1,1, works, Esst t00 bs.	26.50 -	bs. or more, 1.o.b. plant   b. 55-lb. bgs. same basie lb. 3odium phanobarbital (see Phanobarbital	.63½ - .62 -	WEEK ENDING AUGUS	T 29, 1986
		works, Wost 100 lbs. Sodium ldsuilite, soin., 36%, bulk, 100%	32.00 -	Sodium phenosulionete, powd. dms., ib. Sodium phosphate, anhyd., dibesic	-80dum). .76 -	Sorbitan monostearate, dms., c.i., 1.i.,	
		basis, works, East t 00 lbs. soin., 100%, bulk, works, Wast t 00 lbs.	20.60 ~ 20.00 ~	tech., pas., c.l., t.l., works, 1rt.		30,000 lb. min., 1.o.b. workslb.	.76 -
seconarin NF, gran., soluble, dma. 1,000-lb. lois, trt. alld 1b.	2.50 2.75	photographic grada, 43% soln.,	21.90 -	equald	54.50 - 57.50 -	Sorbitan tristeerate, c.l., 1.1., 39,000 b. min., f.o.b. works lb.	.80 -
sechain NF, powd., soluble, dme., less than 20,000-lb. lots, lrt. alid lb.	3.75 -	Sodium borala NF, gran., bge., c.l., works	.51 –	Sodium phosphste, monobasic, tech., eams basis 100 lbs.	65.75 -	3orbitol, U3P, rag. 70% aquaous, dms., c.t., 1.o.b. shipping	.00
elliover oil, non-breek, tanks, N.Y lb.	.47 50 .63 .67	powd., sama bests	.52 -	tood grade, sama basis. 100 lbs. tribasic, tech., same basis. 100 lbs.	59.75 - 52.25 52.75	pointb. tanks, f.o.b. shipping point,ib.	.95 – .30 –
tens leaves, Dalmatian, No. 1, Dgs. ID.	1.60 - 1.40 -	1000-5000 ibs. works ib. 5 odum borohydride, stabilized water	19.66 2t.60	lood grade, sama basis, 100 lbs. chlorinated, sama basis, 100 lbs.	63.25 - 31.50 -	gran., dms., c.l. t.l., works lb.	.70 .74
Abarten, bgs	.60 - 90.00 -	soln., 12% NaBH <sub>4</sub> , t 00% basis, 3000 gat tankwagon, works. ib.	17.45	cryst., tech., same basie. 100 ibs. cryst., tood grada, earne be-	30.50 -	powd., dma., c.l., ti., works, lb. 3oybean meal (See Oils, Fata & Waxes n Soybean oil (See Oils, Fata & Waxes n	.66 .72 nerket report.)
Daimetien, Cris	9.50 10.00 12.50 -	Sodum bromida, 99%, gran., 400-lb. dme., f.o.b. works	17.45 -	USP, dried, powd., bgs., dma.,	65.50 -	Soybean oil (See Offs, Fate & Waxes mer 3oybean oil acidulated, sospetock,	
spansit, chis. sacylaldehyde, tanke, f.o.b	3.50 -	Sodium cerbonate, decahydrate, bgs, c.l., t.l., works ton.	t.04 –	works	.t6 .20%	65% acid, tanks, New York lb. Soybeen oil, acid, dbl., dlet., dms lb.	.14 .15 .48 .59 .43 .44
2,000-ib. lets, one ship tb. Sesoric scid, tech., dms., c.l., I.I.,	t.07 1.10	Sodium carbonate, cryst. monohydrate Sodium carbonata, monohydrated,	(see Soda, ash)	b. dms., dry basts, dvd lb. Sodium propionete, dms., 2,000 ibs. or	5.50 -	tanksib.	.47 .56
works	t.23 1.4t	bge., c.l., t.l., works ton Sodium carboxymethyl cellulose (see C	392.00 -	more, t.o.b. Irt. alid ib. Sodium pyrophosphete, acid, tech., bgs.,	.54 -	Spearmint leaves, imp., bis	.36 .43 2.50 2.70
moreib.	1.33 t.63	Sodium chioreta, bulk, t.c., f.I.,		c.i., works, frt. equald 100 bs. lood grads, non-leavening, bgs., c.i.,	58.25 -	Spearmint oil, Far West, nettve !b. Midwest, nettve !b.	14.00 15.00 19.00 12.00
moretb.	1.56 -	f.o.b.works		works. trt. equald 100 lbe. Sodium pyrophosphate, ferric, dms.,	6t.26 -	Far West, Scotch	15.00 15.50 14.59 15.25
Sat eraporated, common, 60-fb, bga.,	4.02 -	c.l., works. E	.27 -	o.l., t.l., works	.3880 –	Spruce cit, dms	6.09 – .29 .30
cl. tl., North, works 80 lbs. but, same basis 1on chemical grade, same basis 60 lbs.	60.00 6t.20 4.30 -	Sodium chloride, U3P, gren., boslb. Sodium chlorita, tach., dms., c.l.,	.26 -	enhyd., tech., bgs., c.l., 1.l., works, frt. equald t 00 lbs.	44.75 -	zStannic chlorida, anhyd., dms., works.	
Ser, rick, medium, coarse, same ba- sis	2.70 -	works		bulk, hopper care, sama ba- sis t 00 lbs.	42.50 -	Stannic oxide, dms., works ib. Stannous chloride, anhyd., dms. wks . ib.	N.A. – N.A. –
buk, same basis	t6.00 25.00	Sodium chromate, tetrahydrate, bgs	.67 –	tood grads, bgs., c.l., t.l., sams bs- ele 100 lbs.	53.00 –	Stannous fluoborste, kg., conc., dme., t.l., works, irt. equaldib.	2.50 -
N <sub>2</sub> SO <sub>2</sub> , basis, f.g.b. works E fon same basis W	65.00 96.00 90.00 99.00	c.l., 1.l., works lb. Sodum clirate, gran., anhyd., 200-lb.	.64 -	Sodium salicylate, USP, cryst., 200-lb. dms., 1,000-lb. lots or more.		51annous oxide, dms., works	N.A. – N.A. –
Sandawood oil, E. Indian kilo 1	145.00 - 102.00 -	dms., c.l., 1.L, N.Yb. Sodium citrate, USP, gran., dihydrata,	1 95 -	works, frt. equald lb. U3P, powd., 200-lb. dma., 1,000-lb.	3.00 -	6 teans acid, double pressed, bulk . ib. single-pressed, bulk ib.	.26 .39 .26 .375
Sarcosine, tech., tanks, works, fr1.	.50 -	t00-lb. bgs., t.l., t.o.b. ship- ping point	.74/2 -	lots or more, same basisib. Sodium eesquicarbonata, bulk, c.l., 1.l.,	3.05 –	triple-pressed, bulk ib. Stramoniumleaves, bgs ib.	.15 .20
Scheeffer's salt, pasta, dms., 100% basis, works	2.59 -	Sodrum cyanete, dms. 1,000-lb. lots, works	.65 -	workston bgs, c.l., t.l. works 100bs.	170.00 – 196.00 –	Streptomycin sulfate, USP, bulk, .kilo. Strontium carbonata, glass grd., bgs.,	
Scopelamine hydrobromida, USP, 100-oz. lois bele oz.	36.00 46.50	5odium cyanide, briquettas or gran., 99% min., 200-ib dms, min.,		Sodium silicate, solid, or glass, 3.22- 3.25 ratio, bulk, c.i., 1.i.,		1.l., works	
Seback sold, CP, bge., c.l., works ib. puril.bgs., c.l., works ib.	2.14 - 2.13 -	1.o.b. works		works 100 lbs. bgs., c.l., t.l , works 100 lbs.		Styrena monomer, 96.6% min., 1.c	
Seatz modure, das., 5,000-ib, lots. ib Secrium, powd., 99,98% So, dans.,	.30v2 -	Sodium diaceteto, FCC, 50-lb bgs.,		1.95-2 00 ratio, bulk, c.l., I.l., works 100 lbs.		Styrone-scrytonitrile rasin, nst., bulk	4,
ond sb same basis ib.	13.00 - 10.00 15.00	I.I., divd E. of Rockias ib Sodium diacetate, tech., 50-lb. dms.,	.51 .67	bgs , c.l., t.l., works 100 lbs. soln., 37.6° solid, 3.22-3.25		1.o.b. plant	o77 .81
Servs leaves, Alexandria, whola and hall his.	.75 .60	CI, works		ratio, bulk, c.l., 1.l., trt.		clear, same basia	o. 2 <b>.35</b> –
rout the hyp	.70 .7t	or mixed t.l., I.o.b. shipping point	2.60 2.65	"Ratio" indicates percentaga by we percentage by weight of Na <sub>2</sub> O		//1.84QK	o. 2.00 2.1 <b>0</b>
Sesame seed, Central American.	.90 1.10 1.00 1.20	Prices W. of Denver 2c. per pound hi Sodium larrocyenide, bgs, t.i.,		Sodium silicofluorida, bgs., c.l., t.l., works, frt. equald 100 lbs.		Succinic anhydride, dms., c.l., (.l., (.o.b workb) Sucrose, reid., white, bgs., c.l., f.o.b.	. 1.71 –
Sierne pigment burnt pener has	.50 .51	Sodium l'uoborata, tech., gran., dms.,	.60 -	Sodium stannste, dms. wks. frt. alid. E.b. Sodium sullanitate, dms, works lb.	N.A	refy. E 100 lbs. Sucross acetate, isobutyrate, 90%	. 33.10
The base has let and	.19½ .26½ .16¼ .23¾	t.l., works, irt. squaid  b.   Sodium fluorido, white, 97%, 400-lb.	t.77 -	Sodium suifete, NF XII, powd., clms., 2,000-lb. lotsb.	.231/2 -	dms., t.t., divd	1.18 – t.t0 –
morks 83% 200 mash ton	31 00 32.50	dms., c.l., works, frt. equaid ib. 100 bgs., c.l., same basisib.	.6345 - .60 -	tech., datergent, rayon-grade, c.l., works. Guif ton	90.00 96.00	t00%, dms., t.i., dlvd lb. Sucroes octe-ecetete, densturing	i.t <b>a</b> –
93%, 97%, 325 mach	32.00 33.50 34.50 35.50	USP powd., 200-lb. dns., I.I., I.o.b. shipping pointlb.	4.69 -	Sodium suliste, West, bulk, c.l., works, frt. equald	60.00 101.00	grade, 100-lb. dms., t.o.b. workskilo	12.50 13.50
99.5% 325 mesh	37.00 ~ 51.50 54.50	Sodium formato, bgs., c.l., works lb. Sodium gluconatu, tech., 60-lb. bgs.,		Sodium suifete, photo grade, 100-lb.	1t3.00 1t4.00 47.00 53.00	Bullsbenzamide, dms., 500 kiloskilo. Bullsbenzamide-sodium, dms., 500	39.50 -
Willest morning 99.9%	72.00 75.50	2,600 libs or more int. ald., ib. Sodium hydride, oli dispersion, 60%	.60 ~	bgs., c.t., works ton Sodium sullhydreta, flake, 70-72%,	47.00 53.00	kijos	25.00 -
govized in migrone, mi-	70.50 62.50	NoH, 167-lb. dma., 10 dms., workslb.		dms., c.l., works, fri.	600.00 -	kilos	20.00 23.50
Officer I U microns, mi-	104.00 105.00	Sodium hydrosultide (eee Sodium sull Sodium hydrosultite, dme., c.l., t.l.,	•	liq., 44-46%, lenks, works, frt. equaldton Sodium sulida, fizke, dms., c.i., works.	500.00 -	kilos kilo. Sulfadiazine-sodium, USP, dms., 500	53.00 -
100 No. 01 100 SIO2, 325	37.00 -	I.o.b. shipping point E lb. Sodium tiydroxido, USP, pellets, 100-	64 -	E., Irt. equald ton		6ulfamerazine, USP, microcryatela,	40.70
Store letrachionica, back, clare	34.75 -	ib. dms., c.t., f.l., works, frt.	.65 .86	bgs., same basis ton 8 odium suifide, fueed, dms., o.t., works, E., frt. equald ton		USP, powd., dms., 500 kiloskilo.	33.50 - 32.00 -
Large works	.50 - .30 -	Sodium hydroxide, tech. (see Soda, ca Sodium hypophosphite, EN grade, 300	4 404	Socium sulfite, anhyd., tech. 95-100% bgs, f.o.b. works 100 lbs.	23.76 -	Sulfamethazine-socium, USP, powd. dms., 50 kilos	16.00 -
Shirt Condition Block Ass., 1109 OZ.	5.175 - 4.16 -	t t0 lb. dme	t.47 1.52	Sodium sulfooyanide CP (see Sodium the Sodium tetraborate (see Borax).		Sulfamethazing, poyeder, dms., 800 kilos	9.50 10.00
100	3.10 -	Sodium hyposuifite (see Sodium thiosu 6 odrum tedido, USP, cryst., 300- to 500-		Sodium tetrasulfide, liq. 34%, dms., o.l., works., frt. equald ton	540.00	Sulfamfo acid, cryst., bgs., c.t., 1.t., works 100 lbs.	38.00 41.00
pond we	1.00 1.36 1.66	b. lots das frt. equaldb. Sodium lauryi sulfate, 30%, tanks,	14.72 -	Sodium thiocyanate, puril., cryst., 250- ib. dms., 6 dms. or more		Sulfamic acid, gran., cims., o.f., t.i., works	.38
but al works Lob ton	120.00 -	6odium tignin sulfonsie, bgs., o.t.,		f.o.b. worksb. tech., anhyd, dms., 2,000 lbs. or	. 6.26	Sulfanitamida, NF, reg. 1,000-lb. dms., frl. equald	2.00 -
100 h., too. h., paper bga., c.L.	83.00 -	works 100 lbe. Sodium metabisulitte (see Sodium bisu	ilite).	more, works,	.97 -	Sulfantio add, fech., bgs., Ll., 1.o.b. works.	6712 -
a DUNCEL Same needs	160.00 - 123.00 -	8ran., bgs., c.l., works lb.		anhyd., 100-lb. bgs., c.l., t.l.,	45.50	Sullsquinoxaline, veterinary, grade, dms	8.00 -
Guil Coast works, La.b., frt.	. 63.	letrahydrete, gran, bge, c.i., works	46	cryst, penishydrate, c.t., i.t., same	28.50 -	vessels, Gulfporislong-ton	150.00 - 125.50 -
Big 76% 400 basiston.	176.00 196.00 . 205.00 225.00	Bodium, metalik, 12-lb. bricks, dms., o.l. worksb.	.63	Sodium titanete, dms., c.l., works lb. Sodium trichorgecetate, 95%, 50-tb.	1414	recovered, dvd., Houston, long-ton ex terminal. Rotterdam long ton	
70%,700-lb.dme, c.l.	00,010 DU.00	lused, dms. 24,000-lb. lots or more, works,	01	Sodium tripotyphosphete, fech., bgs., C.L.	.28 -	f.o.b. tanks, Alberta, Canada, for US delivery long-ton	102.00
gran. 75%, 450-lb.dms, c.I.	520.00 570.00	tanks, works		tulk, hopper care, same basis, 100 lbs.	39,75 - 37,50 -	dark, ex-Tampa, Fis long-ton Suffur, grude, 99.5% min. purity, comi.	157.50 -
works, 400-lb. dms., c.1., works, 100 lbs.		c.t., f.o.b, shipping pt. fri. equati	61.60	food grade, bgs., o.l., t.l., seme ba- sia	48.50	flour, 50-lb. bgs., c.l., mines basis 100 lbs.	13.60 -
DO IO. PROMO DE LA COMPANIA.	27.50 28.50 x. Prices in West 70c.	food grade, bgs, c.l. f.o,b, frt, equald.		Socium tungslats, tech. high mory., dms. 10,600 lbs or more, irt.	6.00 6.80	lump, same basis 100 lbs. Suffur, reid., 99.5% min, purity, rolls	13.60 -
SOUR SOL MAN	Ki higher for gran. and	Socium metasilicate, anhyd., bgs., c.l. works	27.25 25.30	Folin grade dms., 10,600 lite. or	8.00 5.80 8.00 -	50-to baga, c.f., minea ba- als 100 lba	17.50
	3.36 3.66	perk, C.L. WOKKS		more, same basis	.52 -	flour, light, 50-lb. bgs, same ba-	20.00 -
School Booksig   1900 energy   10.	.54 -	ping point 100 bs.		Sodium-tormsidehyde sulfoxylete.	.91	Sulfut, reid., sublimed, NF, 99.85%	
THE RESIDENCE AND ADDRESS OF THE PARTY OF TH	.57	Sodium molybdaie, artiyd., dms. f.g.b. works, 100 lbs and over. ib. cryst., dms., 12, same basis		Sodium-zirconyl suffate, dms. 1.000	.28	min, purity, 50-fb. bgs., o.l. mines basis 100 lbs. Bulfur, rubbermakers, 99.5% min. pu-	26.00 -
Sour paragolibs or more. Ib.	6.00 8.75			b. lots or more, works, b. tech., dms., any quantity, works. b. solveni nephths, patroleum, straight	.18 -	of mines basis 100 lbs.	14.60
MONE	3 70	Cod me Minerte I ISP, hos. Cl. Lob.		aromatio, b.r. 920 -350 F. 56°F.m.a.p., tanka:		fine, 98% min. passing through 325 mesh, same basis . 100 lbs.	16,10
Sodum ascorbate, 1989, C1, dvd. E. Ib.	1.46 1.50	Costum plirate dam, industrial bos-	284.00 292.00	New Jersey	1.52 1.41	Sulfur dichloride, dms., o.l., works, frt.	.24
SOCIETY IN THE PARTY IN THE PAR	8,30 10,50	bulk, c.l., works	250.00	Column perhitte petroleum streight a	∴1,54 -	Sulfur dioxide, iq., comi. multi-unit	174
800 m km	. 1 have 1 1 have 1	kmp., com., CO-lb. bge., c.l., All., or Guif whee	162 00	New Jersey	1.30 1.85	Lanks, works	
100 h seame beste	.8514 9814	imp., sgricultural, bulk, c.i.	140.00	Houston 984	1.30 1.30 1.35	Sulfur monochloride, dims., c.i., works., in., equald	221/4
100-b, dire., cl., 11, pame besie, ib. lon-los, same base, ib. b	.86% .89 .62	bulk, e.t. serie pees imp. sgrieuflural, bulk, o.t. same bass. bin same bass. bin sodkun niinte, USP, dms. o.t. works. frt. equati. 100 iss.	37.25	Scrolo add til day, dvd.	2,20. 8.10	tanka same basis	1614
是是特別的人	(1986) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997)	History Control of the Control of th	NEW WER	September 1 1 886	CHEMIC	CAL MARKÈTING REPORTI	<b>SR</b> (1)
The state of the s			16、15、15、15、15、15、15、15、15、15、15、15、15、15、	The state of the s	Transfer Septimin		

	Service Co.	1	ļ i
1	<b>(</b>	3	
9	*		
	2 / 19	ð	
	3 18	<i>)</i>	の 19 15 15 15 15 15 15 15 15 15 15 15 15 15
100			1.
	2		3

		Thorlum nitrate, puril., dms., 100-lb.			Turmeric, Alleppey	.95	1.10
	CHEMICAL	lois or more, workslb. di-Threonine, dms 10 kilos wkskilo.	2.75 128.00	- 5	Turpentine, crude suifate tanks, Lo.b. Southeast works	.70	.80
١.	( PERMICAL	Thyme leavee, French, bgs fb.	.92	.95			
Ċ	VIILIVIIVAL	Spanish, bge	.71 20.00	1,15			
		NF, white, dms klio Thymol, NF lb.	22.00 3.75	8.15			
	PRICES	Thymol lodide, dms., 100-lbs. 1.o.b.			l <b>u</b>		
÷	rnived	worksib. Tin metal (NY composite)ib.	52.30 N.A.	58.20			
		Titanium dioxide, anatase, bgs., 20- ton jots, frt. alidb.	.73	.74	Ultremarina blua pigmente, 550-2,000		
١,	WEEK ENDING AUGUST 29, 1986	skary shipments, 50-ton lots, dry ba- sis, frt. alid	.72	.74	(blots, works	1.30 2.20	-
	Sulfurio acid, virgin 100% tanke, worke,	I itanium dioxide, rutile, reg., bgs., 20-			Umber pigment, burnt, American, frt.		45
	East Coast	ton lots, frt. alid lb. alumy shipments, 50 ton fote,	-76	-	raw, American, dom., bgs., l.c.l.,	.131/2	.15\/a
	Gulf Coasi	dry basis, (rt. alidb). Non-chalking rutile meterial costs 1c. pe	.80 could a	-	same basis b. Undecylenic ecki, dms., works ib.	.13½ 2.70	.1434
	Southeast ton 68.15 -	Titanium hydrids powd. electronics		1010.	Urea, 48% N, Ind., bulk, 50-ion c.i., divd		220.00
:	NOTE: For prices on 60 and 88 Be., multiply by 7787 and	grade, dims	28.50	-	48% N. agricultural, bulk, divd. Mid-		220.00
	to, respectively. For prices of 20% luming cleum, as	I.o.b. works	.80 .50	.35	west	200.00 210.00	215.00
٠.	Sullunic acid, amerier, 100% tanks, works,	Titanium sponge, 99.3%, fiber drums.	.00	_	Uva-Ursi leaves, bls	.22	
	New Mexico ton 20.00 25.00	less than 5,000 lbs. Lo.b. wksb.	4.85	-	-		
!	Southeast ton 83.15 = 93%, tanks, divd., Northweet ton 60.00 65.00	Tobles sold, 2,000 lbs. or more lb. d-a-Tocopherois, 67%, dma kilo	2.45 50.08	-	W		
÷	6 unflowerseed oil, crude, 1.o.b. Min- neapolis	d-a-Tocopheryl acaiete, 81% conc., dms	57.46		1		
	6uperphosphate, triple, 46% or more, 8.p.a., run-ol-pile, bułk, o.l.,	d-a-Tocopheryl acid succinate, cryst.					
ii	F相	dinakito di-a-Tocopherol, dmakito.	78.44 27.40	-	Molecular and Parking I		
	bulk, gran., c.L, Fla ton 180.00 185.00	dra-Tocopharyl acetate, USP 50-kito	16.00	18.50	Valerian root, Belgian, bgs b. indian. bgs b.	.65 .45	.85
		50% dry powd50-kilo dm kilo	17.00	-	Vanadium oxytrichlorida, 3,000 lb. cyls., works	5.40	
		Toku balsam, crus	7.80	8.66	Vanadium pentoxide, tech., gran., per lb.		
		Atlania, Ga., divdgal. Bayonna, N.J., divdgal	.73	-	of V <sub>2</sub> O <sub>2</sub> , 550-b. drns., works ib. fused or flake, per ib. V <sub>2</sub> O <sub>2</sub> , 550-	4-10	4.94
		Baytown, Tex., f.o.b gal. Chicago, Ill. divd gal.	.73 .73 .73 .73 .73 .73 .66 .73 .73 .73	-	Vandyka brown, bags, LL, frt, acusid, ib	3.35 .2714	3.85
	Tale day and No. 10.	Clairton, Pa., Lo.b.	.73	-	Vanila beans, Madagascar	37.00	00.00
ii	Take, dom., grd. New York bgs., c.i., works	Geer Park, Tex., Lo.b	.73 .73	-	vanum, USP, dms., I.o.b works lb.	27.00 6.25	30.00
.:	99.5%, 325 mesh, bgs., c.l., works	Oull Coast, spot, barges	.68	.67	Imp., dms	4.75 .84	5.00
j	Talc, dom., 86.5%, 400 mesh, mi-	New Jersey Metro, divd gal.	.73	-	extrakilo	80.50 83.00	-
1	cronized, bge., o.l., works ton 187.00 238.00 825 mesh, micronized, bgs.,	Philadelphia, Pe., divd gal. Providence, R.I., divd gal.	.73	_	Vativer oil, Bourbon, drna	18.00	17.00
ŝ.	c.l., workston 200.00 - dom., ord., Calli. grd., bgs., c.l.,	Toluene di-isocyanate (mixed isomera), 80%, 2.4- and 20% 2,8- isomers,			Javakio	28.00 31.00	-
i	ord., Vermont, off-color ord., bgs.,	jumbo tankcars, givo ib. p-Toluenesulionamide, powd., dms.,	1.01	-	Victoria blue toners, motybdated, PMA dms	8.20	6.30
ij.	C.I. Works	Li. WORS In	3.55	-	tungstated, PTA, dmsb. Vinyl acetate monomer, tanks, divd.lb.	10.40	_
ŀ	WORKS ton 70.00 P4.00	m-Tolukine, tech., bulkb. o-Tolukine, tech., iq., dms. c.lb.	3.10 .72	.75	Vinyl chlorids monomer, polymar grade, tanke, I.o.b. worksb.		_
:	i eli oli, cruda, Bouthessi, tenka,	bulk, same basis b. p-Toluidine, tech. cast solid,dms.,	.60	.84	I VINYI SINGT, USP. anasihesia. 75-cc	.28	-
;	TaBou, refd., acid, earne basie ib	CL.WORKS	1.80	1.85	bots., hospitals bots. 2-Vinylpyridine I.I., dras. works kilo.	1.58 7.81	-
	dist., tanka, same basis ib	Liq., tanka, same basisb. flake, same basisib.	1.70 1.85	:	Vinvitoluena bulk 1.o.b	7.81 .67	.731/2
	works, fri. equald ib 201/2 231/2	C.I. I.O.b. works	1.03	_	Vitamin A, synthetic, dry, pharm., 500,000 Aunits per gm., 50- kilo, lots , kilo	33.00	.7072
•	anow (586 Oils, Fate & Waxes market report \	bulk same basis. b. Tolyltriazole, drne., 1,000-lb. lots, 1.o.b.	.95	-	Vitamin A, liq. in oil, pharm., 1,000,000 A		-
	Tallow, letty acids, tech., non-ret, dris., ci., divd	Circinneti Ohio IN	2.90	-	Vitamin A, lead grade, 650,000 unite	41.00	-
	hydrogenated tech. fisks bos c I	Tonks beans, Angoeiure, prime, 1,000-lb fota	8.50	-	Vitamin B, (see Thiamine hydrochlorida)	18.70	23.85
	GIVO	Tregacanth ourn. No. 1, rithons, cne. ib.	.36 36.00	40.00	Vilamin 8,3 (See Ribotizyin ar	id Yeasi).	
	langerine of, Fig., drps. Lo.b		12.50	15.00	(cyanocobalemin), visie, 50- gram, lots	0.00	
:	Tankage, animal feeding, 9-11%, NH-	indulyi citrata, I.I., druma, I.o.b.	.76	-	vicential Dir 176 tratabilities of cryst. d.,	8.00	8.75
	New York, bulkunit-ton 5.50	Tributyl phosphate, tanks works	1.70 1.65	1.77	(cyanocobatamin USP) with dical- clum phosphata, 25-kilo dms. kilo, Vitamin 812, 0.1% injuration of cryst.	10.75	12.75
	Tannic ecid, NF, fluify, bbfs., 1,000- lb.	Tributylamine, dms., o.l., divdb, tenks, same basisb.	1.39	-	I Gulcvanocobalamin USP) with		
	lech.,powd.,cms	ricritoroacelic scid, tech., 300-lb.		-	mernitol, 25-kilo. dmskilo. Vilamin 8 <sub>12</sub> , cobalamin concentrate NF	15.80	-
	Tar acid of, 15-18% LL, dms., 1.o.b works	USP, 100-lb-dms., frt. squald lb.	.94 .9914	:	with mannitol, 1,000 mcg, per	40.40	
	20-28%, (.f., ome., 1.0.b. worke .gal. 1.59 -	1.2.4-Trichlorobenzene, pure, tanks, divd	.611/2	_	Vitemin 812, 1% Vitemin 812, USP, ab-	18.45	-
	Terranciació, NF, bgs.,	surers died tanks, con-	,40Vz		sorbed on resin, 5-kilo dms., 500- gram lots, (rt.elid. per gram sclivity	15.65	
	Terpin hydrate, NF, Imp., cryst., powd.,	i i a i i i i i i i i i i i i i i i i i			NF, sosorbed on resin 5-kilo		
	Irt. equald	worksb. Trichloroethylene, lanks, divdib.	.42	-	cms., irt. eld. per grem activity Vitamin 8 12. 1% cyenocobalemin in	15.40	-
	Tempred sectate system days	Trichlorolsocyanuric acid, dmsb. Trichlorophenoxyacelic acid (see 2,4,5-T).	1,25	-	( OBIBIIN, 2.5-KIIO dma., Iri.		
i	privile, dme	dms. 1.500-ib lote died	1 25		Vilamin C (see Ascorbic acid).	15.40	-
:	Terprinyi propionate, dms	ricresyl phosphele, lenks, Lob	1.35		Vitamin 0 (see Cholecelei(erol) Vitamin D <sub>2</sub> (see Codiliver and Fishiliyer oils		
	I.I. works	Works lb. Tridecyl alcohol, mixed isomers, tanks,	1.55	1.60	Vitamin D <sub>2</sub> (sea Codilver and Fishilver oils Vitamin E (see a-Tocopherol and Wheat g Vitamin H (see Bloth).		
	Antenial Chicalicals' Disk' 1'0'p'	divd	.57 .45	-48	Violat mathyl toner (see Methyl violet tone	er)	
	Tetraethylene glycol, lanks, irt, alld by 62	Triethanolamine laury suffate tanks	.45	.48			
	dris., f.o.b. works b 150	Triethylemine.cms. ol. duel	.2714	27/2	11/		
	bask tanks, same		1.38 1.20	2.	TT .		
:	fisks drea 11 to std. The re-	works orums, (.o.b.,	1.82		44		
	letranyororuran dms., c.l., Ll., Lo.b.	Trietinyiene givcol, lanks, forb, Guiff ib	1.15		Warfarin 0 Eo/ due		ميوسطة
	Works	(.c.b. works		-	Warfarin 0.5%, dms., ton lots, frt. ald. New York or Chicago ib.	.75	_
	Memoris, Teno	Acresid	.2914	-	Cold-processed 9st.	16.50 14.00	17.50
	Tatrahydrophthalic anhydride dma.	equald	35 1.43	1.45	das, tob works		44.57
	C., (L. Lo.b. worksb)	Tri-isobulyiene tanks ched	.51 .45	.55	Whitergreen of the fact that it.	7.892	11.24
	ia u asourum pyrophosphane (see Sodium pyrophosphata)	ally E		-		a). 1.35	_
	tetrabasic.) Thalium metal, divid		.571/2	-	400 mash, but, oi works	1.76	3 .
	Theobromine, bulk 1.o.b. works Ib. 4.00 4.50	25% soin, Lanks, frt, equals, 100%	.541/2		high senger ratio has week ton	117.00	-
	inaophyline, USP, anhyd. 50-kilo	basis. 55. 40% soin, tanks, frt. equald., 100% basis. 65.	.6314	٠٠.	plant general and producing	164.00	7
	Miamine hydrochloride, USP 100- killo		.58y	57	325 mesh ton	200.00 140.00 1	41.00
	Thiarrane mononitrate, U6P, 100- kito. 27.00 31,00	ding Lob works	73	:	1 120Umach	500,00	-
	Thiodiphenol, 66%, dms., f.o.b. 27.00 31.00	Thospiasochritol torks to the	1.60 1.00		Wormsperi of Jens Charles		
• •	Trisoflavin green toners, molybda(ed.	equald	1.84	70	Wommwood oil, cns	31.00	38.00
	PMA.008		.84	76	AV A 18 (1) (1)		
	tungetated, PTA, dma	Trie-(hydrothethyl) nitromethane, solid		11	(A) (A) (A) (B) (B) (B)		
	100% acid basis lb. 2.07 — Thioladgold margon, data, frt. alid. lb. 7.50	Trisodium phosphate (see Sodium phosph	ate, iriha	sic)		7.1%	
	reds, drie, (rt. alid	1. Works Bb Titledium phosphate (see Scolum phosph 1-Tryptophan, drin, 25-tao lots kao Tung oil, tanka, tup, New York Tung oil, tanka, tup, New York Tung oil, tanka, tup, New York	62.00	65.00 34	The state of the s		3 4
	24,000 lb. min. t.L., dms. (rt.	D DOON	12.85	ار در المحالية المحالية المحالية	Xanthan gumi food 800-b. dynsi, 1.6.b.	or other	
	equaldbb. 55		64	in all of	works ind grade same basis	8.66	6.20
- 57	42 GHEMICAL MARKETING REPO	Ruce September 1	1006		Mary Balla Dasis	454 E	3
		And the second	Cr.			and the	1. 1. 1. 1.

The second contract of the second contract of

US imports of chemicals and related materials are reported in this section by CPI mesterial. Listings include consignee where possible, container, net weight, name of vessel (in parenthesis), port of origin and date of shipment's arrival in New York or the Port of Newark.

. US chemics imports/exports are tabulated monthly in the market reports.

3AHNO12PROPANDIDL Scanfreight 19 dma (5028 lbs) (Atlantic Compass) Gethenburg, 7/7. 3AHNO 4 METHIDXY ACETANILIDE Greenwich Chami-3AMMO 4 METHDXY ACE LANILIDE Greenwich Chemical 88 dms (3281 0 ibs) (Ming Moon) Kobe, 7/23.
4 4 OXYDIANILINE MTC America 100 dms (5071 lbs)
[Lots Maersk] Tokyo, 7/24.
5 ACETYL SALICYLAMIDE Leyden Customs Expediters
(0 dms (1102 lbs) (Hreilin) Rijake, 7/18.
ACETAMINOPHEN Drdar 300 kga (19180 lbs) (Ging Ha) Shanghet, 7/19. ACETATE LINAL YLE SYNTHETIC Order 158 dms (67226 bej(Alianto Saga) Le Havre, 7/9.

ADTYL ACETONE Wacker Chemicals 10 bri (4541 lbs)
TFL Jefferson) Bramechsven, 7/21.

ACETYL OMETHYL EGTER Order 77 cask (37516 lbs) Sec | 1.10 | 240 | ... | 1.10 | ... | 240 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | ... | 1.10 | (15) (Hedford Rochesta) Rottlerdam, 7/15.

(Hedford Rochesta) Rottlerdam, 7/15.

(ETYLSALICYLIC ACID M Gurza Custom Brokers 400

(m) (24692 lbs) (Louis Maarsk) Hong Kong, 7/24.

(ETYLSALICHIC Felion Intl 280 cs (40256 lbs) (Bazies

vinno petroleum, Ind or nitiation, lanks

Ft Wayno, Ind , dvd. Guil Coast, spel, barges Houston, Tox., dvd.

Xylano, petroleum, Ind. or nitretion, tanks Pretadolphia, Pa., divd....gal. Providenco, R.I., divd....gal. South Bend, Ind., divd...gal.

2.4-Xylidine, tech., liq., c.L. t.L. t.o.b. works ... ib. Xylidines, mixed, o-m-p., dms., c.l., t.l.,

Yeast, pure brewer, s debittered. NF. Sec-

Zino chromata, bgs., divd. 85. Zino cyarido, dms., c.l. lb.

Zino othylonediamine tetrecolio acid, 8.4% Zn., ammonia selt soin., 1.c., i.f., t.o.b. works

divid ... lb. Zine nitrate, tech., flake 300-lb. dms. . lb. Zine oxide photo conductiva, bgs., c.l.,

Zinc oxide, U3P 50-lb. bxs., o.l., frl.

Zinc oxide pigment, American process, lead-free bgs., o.t., frt. aid., . b.
Zinc oxide pigment, American process, lead-free bgs., o.t., frt. aid., . b.
Zinc oxide pigment, French process
regular bgs., c.t., frt. aid., . lb.
Zinc phenoisulfonate, purit, gren.,
250-lb. dms., t.t., frt. aid., . lb.
Zinc pyridinetitions, 48% dispersion, dms., to b.
Industrial grade

Works. 17
Zino etearate, USP, bulk, 1J. 19. 92;
Zino eulista, gran., monohydrate, frduel, grade 36% Zn., bys., c.l.,
works. 100 ibs. 28.89

agricultural grade powd., bulk. same basis. 100 bs.

w (see Zino chromete).

Zinc yellow (see Zino chromets)
Zinc ammonium chloride, bgs., g.l., works.
Linc ammonium chloride, bgs., g.l., works.
Zino indecylenate, dms., works., i.b., 25.
Zino indecylenate, dms., works., i.b., 200-8b. dms., frt. aid., b., 200-8b. dms.,

ncousi plement type 1 & 2, dms., o.l., (.o.b. plant...

charomyces, t.L. (o.b. works . lb. 

Yera yara, 25-lb, cns

l.o b. works . . . . . . . . lb.

hance, Le., t o.b.,

1.35 1.42 1.37

1.70

1,50

1.00

9.79

20.20 20.20 20.20 20.20

27.90 27.90 27.90

29.70 29.70 29.70

33.20 33.20 33.20 1.12 1.65

.59

,48

47%

461/2

.40 .

.41

1.82

5 Constanza, 7/28. ACETYLSALICYLIC ACID Janel Intil Fwdrs 30 bxs 142229 tel(Ever Greet) Rotterdam, 7/10. ACRYLMIDE Order 2160 bgs (124533 lbs) (Evar Great) Rotlerdam, 7/10.

Roterdam, 7/10.

ARYLC Livingslon Intl Fraight 388 ctn (3849 tbs) | Sea Land Leader) Algedraa, 7/22.

ARYLONITRILE BUTADIENE RUBBER N Albo Fwdg 240 pkg (14208 lbs) (Kiso Maru) Tokyo, 7/15.

ARTIVATED CARBON Carbon 8 Fittration Products 20 crt (46150 lbs) (Louis Meerek) Sangapore, 7/24.

Degusa 800 bgs (28984 lbs) (Sturtgart Exprose) Bramerisven, 7/22.

Craft Chamicals 500 bgs (40547 lbs) (Ever Oreot) Fo-Ratione, 7/10.

Retown, 7/10.

Kreta 8 bgs (\$70 lbe) (Leda Maarsk) Tokyo, 7/18.

RDRR ACID Wold D Barth 3200 bgs (170895 lbs) (Dazlas 5) Constanza, 7/28.

AGAR ABAR Alliransport 20 dms (2425 lbs) (Amarican Crio) Rotlerdam, 8/1.

American Styg 200 bgs (11552 lbs) (Corplapo) Valteress, 7/24.

American song 200 tige 111922 tiday (Action 2018), 7/24.
Tidawa 40 ding (4782 bis) (Lodin Minorak) Kribo, 7/18.
MD 40 dini (4798 bis) (Alexandrin) Rotterdem, 7/10
ALGRIC ACD Fallek Chemical 20 diers (2425 tida) (Ming Moon Yokohama, 7/23.
ALLEPPEY RINGER TURMERIC Order 240 bgs (Ameri-

can Brois Singaporo, 7/21.

Okiesa Produce 180 bigs (2232E lbs) (Visitivo Poraq)

Algebra, 7/25.

R I French 288 bigs (40190 lbs) (Visitiva Para) Algebras,
7/26. ALLYLAL COHOL Rhone Poulanc 75 dnis (32002 lbs) (At

Methyli Foe, 7/21.
ALPHA METHYL OOPA M G Transport Whroliouso 10 

half the BASIC STANDATO DOVOS CHARLES AND ALCO edi Hemburg, 7/25.
ALLARQUE PASTE 1074 U.S. Bronzo Powdor 70 dino

(4545 be) (Alexandra) Antworp, 7/10.

Aligoralis BFLUORIDE Order 880 Ixta (46501 lbs) Marking BFLUCRIDE Drdar 880 bgg (4680) lbs)
(Areatan Orlo) Sremorhavon, 8/1.

AMANAM CHLORIDE Order 400 pkg (40050 lbs) (Aland Carpass) Liverpool, 7/7.

400 sr (4005 bs) (Darl Aldenilen) Felixatowo, 7/28.

AMMONUM OXALATE Dinial F Young 38 hga (2136 lhs)
(Assis Servico) Rottardam, 7/23.

AMMONUM PERSULFATE Alies Informacial Transport
(Mrss 0t. Folsome Mitg 8 cime (0 ths) (Srn Pedra)
(Hsis, 7/18.

there 5 dms (2414 ba)(San Podro) Haine, 7/16.

Alos Ot. lber Freight 8 pkg (3886 lbs) (Almudana) Ve-Note, 7/25. MASS EEED E L Boott 327 bgs (39983 lbs) (Almudena) AMATTO Oversees Produce 21 bgs (3182 lbs) (Aan

AMAITO Oversees Produce 21 bgs (3184 bbs)

Production of the produce 21 bgs (3184 bbs)

AMAIN AND REGULUS Mirameleis 66 pit (117287 lbs)

Reg (4) Shanghat 7/18.

ASPARTIC ACID Afnomotio 40 bxs (71426 lbs) (Ever Great) Le Hevre, 7/10.

BASTURIC ACID Livingston inti Freight 120 dms (7786 bs) (5016 Mesers) Hong Kong, 7/24.

BASUM CARBONATE Order 400 bgs (22222 lbs) (Kiso kirametric force) (1506 bss (22222 lbs)) Many Tokyo, 7/18.

RABIN CARBONATE PRECIPATEO Prescoll 9400 bge

ARBONATE PRECIPATEO Prescoti 3400 bg8 (18943 be) (Bird He) Kobe, 7/16, BRILIM CARSONATED Kas Chemie 720 bga (160636 be) (Ever Greet) Hemburg, 7/10.

BARLIM CHLORIOE Cometals 1360 bgs (76857 lbs) (City 720 bgs (39842 lbs) (Oing He) Kobe, 7/18.

BARLIM FERRITE Jarrow Provinces 18 cls (40518 lbs) EARRITE Jarrow Products 18 pr. (405.16 few Shire) Leghorn, 8/28.

BARNAH HYDROXIDE OCTAHYDRATE Kingeloy & Keith Skingeloy Hel Kobe, 7/19.
K20 Group 340 drus (40477 lbs) (American Illinois) Hong Keng 7/21 Biss. A A Sayle 494 bgs (27227 lbs) (TFL Jafferson) A Sayla 494 bgs (27227 lbs) (TFL Jefferson)
February, 7/21.
BESHAX, R Baldini 108 ske (11964 lbs) (Copiepo) ValBESHAX, R Baldini 108 ske (11964 lbs) (Copiepo) ValBELONIC ACID Folio, Management of the State of the Sayla CHINESE MENTHOL CRYSTALS Hudson Bring 168 dms.
(1616 lbs) (Alexandra) Breman, 7/18.
CHINESE NATURAL HERSE Witter Glove MFG & Trog.
62 ctri (6326 lbs) (Leda Mearsk) Hong Kong, 7/18.
CHINESE PATENT MEDICINE Wing Tal Hong 71. otn.
(1747 lbs) (Bing He) Kobe, 7/19.
CHLORANIL DRY Order 30 hob (10352 lbs) (Nedlipyd Rouen) Rotterdam, 7/22
CHLORINE DRY BLEACH SODIUM DICHIL Qin 286 dms.

dms (16081 lbs) | Dart Atlantica) Fallxstows, 7/29. BENZYL ALCOHDL Leschaco 1 tnk (40432 lbs) (Alexan dra) Bremen, 7/18.

dray Gremen, 7/16.

Mariborough Chamicala 1 tnk (40344 lba) (Ever Great)
Fallxstows, 7/10.

BETA HYDROXYNAPHTHOIC ACID Uano Fine Chemical tnd 2930 bgs (144137 lbs) (Ming Moon) Kobe, 7/23. A NAPHTHOL Penson 660 bgs (37853 lbs) (Ming

Moon) Hong Kong. 7/23.

BETA NAPHTHOL. Penson 880 bgs (37853 lbs) (Ming Moon) Hong Kong. 7/23.

BETA NAPHTOL FLAKES Order 1120 ctn (63457 lbs) (8azias 5) Constenzs. 7/28.

BLACK PEPPER Herds Freeman 288 bgs (45082 lbs) (Amarican Illinois) Singapore. 7/21.

Ludwig Mueller 201 bgs (33089 lbs) (Ever Linking) Singapore. 7/20.

Man Productan 210 bgs (33069 lbs) (Ever Linking) Singapore. 7/20.

Man Producten 210 bgs (33069 lbs) (Evar Linking) Singapora, 7/20.

BLUE POPPY SEED Louis Furth 720 bgs (36840 lbs) (Columbus Virginia) Melboums, 7/25.

BORIC ACID Enicham Americas 364 pkg )130805 lbs) (Sea Lend Leadar) Algaciras, 7/22,

BRAZILIAN NATURAL MENTHOL CRYSTA Sercom 100 dms (10972 lbs) (Bacol Vitoria) Santos, 7/11.

BUTYL METHACRYLATE Surface Air inti 1 mk (40344 lbs) Start June) Entre Linking 7/414.

CADMIUM PtGMENT Elco Shpg 7 dms (0 lbs) (Alexandra) Fallsstowa, 7/10. Willtakor Clark & Daniala 15 dms (928 lbs) )Dart Continent) Folixstowa, 7/22. CADMIUM PIGMENTS Davios Turner 110 dms (12981

lbs) (Ever Living) Felixetowe, 7/21.

Iba) Atlantic Compasa) Liverpool, 7/7.
Whitaker Clark & Daniels 12 dms 1741 lbs) Atlantic Compass) Liverpool, 7/7
CAFFEINE ANHYDRDUS Daniel F Young 120 dms |8015 lba) (Alaxandro) Rotterdam, 7/18.
CALCINED CLAY MOLD CHITE Haminii 8 Giliaspia 384

sks (43633 lbs) jever practi Felixstowo, 7/10. 384 skrt (43633 lbs) jever Living) Felixstowa, 7/21. CALCIUM ALDIMATE PROTAWELD TX Scanheight 1 mil CALCIOM ALOPPALE PROTAWELD TX Scantoligh 1 fill (2273 the) jakimilic Comprise) Dottenburg, 7/7.

CALCIUM CARDDNATE Wirthakar Clark & Dairiels 355 bys j40234 lbs) (Allentic Comprise) Liverpool, 7/7.

CAPRDIC ACID Rehace Chamicals I con (38272 lbs) jEver Groet) Hotterdem, 7/10.

CAPSICUM OLEORESTN Meer 67 ctn (2388 fbs) (Vishva Porag) Algeciras, 7/25. CARDAMOM William E. Martin 44 bgs (2286 lbs) (Pol-

CARDAMOM William E. Martin 44 bgs (2260 lbs) (Pol-wind) Sto Tomas, 7/25.

CARDAMON Oll, Infl Flevora 6 Fragrances 1 cs )135 lbs)
(San Pedro) Helna, 7/18.

CARDAMOMS A A Seyla 20 bgs (2249 lbs) (Schacken-borg) PI Limon, 7/17.

Zell Azmi Abdash Trog 250 bxs (24802 lbs) (Schacken-lurg) Sto Tomas, 7/17.

CARNAUDA WAK Strahl 6 Pilesch 800 bgs (44370 lbs)

Sept Astril P. Feddeling, 7/18

(San Martin I) Fortelazo, 7/16. Frank 8 Roas 440 bga (44404 lbs) (Lloyd Atlantico)

DECDRTICATED CARDAMDM8 William E Martin 6 Sons 30 bgs (3373 lbs) (Bohsokenborg) Sto Tomas, 7/17. DEWHISKERED DILL. SEED MINCINO TRDG 200 bgs (28465 lbs) (Al Wattysh) Dubal, 7/21. DEXTRINE Drder 4200 bgs (233800 lbs) (Bas Land Voyager) Rottardam, 7/24. DEKTRINE STARCH Order 800 bgs (44533 lbs) (Ever Living) Ronerdam, 7/21. DEXTROSE Drder 800 bgs (44533 lbs) (Ever Greet) Rottantam, 7/10. Fortoloza, 7/10. CATRIAUJA WAK FLAKES FATTY Frank 6 Ross 440 bgs (44404 lbs) (Lloyd Allantio) Fortsleza, 7/18. Stroin 5 Pitsch 800 bgs (44974 lbs) (Notuno) Fortsleza, tardem, 7/10.
DIACETON ACRYLAMIDE Kyows Hakko 150 dms (15212 lbs) (Louis Maersk) Kobe, 7/24.

DIAMINODIPHENYLAMINE SULFDNIC ACID Bemo Shpg 40 dms (1270 lbs) (Ming Moon) Kobe, 7/23.

DIBABIC LEAD PHDSPHITE Monean Chemicals 942 dms (41753 lbs) (Ever Greet) Rotterdam, 7/10.

DICHLORALPHENAZONE Ganea Chemicals 7 dms (772 lbs) (Allerik Compass) (Otherchum, 7/1). CARNAUBA WAK PRIME YELLOW Michelmen 400 bgs

(40486 lbs) (Netuno) Fortaleza, 7/9.
CARILAGEENAN Harold Pepper 100 dms (11023 lbs)
(Leda Moorsk) Koba, 7/18.
CASEIN Noraciend Fooda 1860 bgs (85980 lbs) (3 cs Land fbs) (Atlantic Compass) Gothenburg, 7/7.
DICHLOROANTHRAOUINDNE Leyden Customs Expe DICHLOROANTHRAOUINDNE Layden Customs Expediters 80 dms (13693 lbs) (Al Wattysh) Jabel All, 7/21.

DICHLOROBENZIDINE DIHYDRODHLORIDE Miliaul 80 dms (24081 lbs) (Ming Moon) Kobe, 7/23.

DIDHLORODIFLUORIOMETHANE John Stater 1 trik (38140 lbs) (Ever Living) Felikatowe, 7/21.

DICYANDIAMIDE C Order 800 bgs (89595 lbs) (Helde) CASEIN Noraciend Foods 1860 bgs (85980 lbs) (3 os Land Voyinger) Gremorisvon, 7/24.

CASBIA Ludwig Muclier 334 bgs (44092 lbs) (American Islnots) Bingopors, 7/81.

CASTOR O(L. Order of Bribper 2 bks (8977460 lbs) (Stott 6pan) Barvedor, 7/26.

2 bks (4288009 lbs) (Stott 8pan) Santos, 7/26.

CAUSTIC SODA Commodity Chemical 2 bks (15428851 lbs) (Bow Hunter) Rotterdem, 7/31.

CAUSTIC 600A MINIPEARL Browning Chemical 720 bgs (40609 lbs) (Ever Greet) Rotterdem, 7/10.

CAUSTIC 30DA PEARLS Brenning Internhem 768 bgs (38066 lbs) (Heids) Rolllerdem, 7/26.

Thorson Chamical 758 bgs (38082 lbs) (Ever Greet) Antivero, 7/10.

CECEMEL Venguard Resources 156 bss (4206 lbs) (Siutigert Express) Rotterdem, 7/22.

CELERY 6EEDS Schil(1 Pood Produots 187 bgs (22090 lbs) (Al Wattysth) Dubal, 7/21.

DICYANDIAMIDE C Order 800 bgs (89595 lbs) (Helde)
Rotterdam, 7/25.
DIETHYL MALONATE Feiton Intl 417 ce (56792 lbs)
(Sazlas 5) Constanza, 7/28.
DIETHYL OXALATE Rhone Pouleno 72 dms (34803 lbs)
(Oragor Macrak) Maresille, 7/16.
DIETHYLCARBAMAZINE CITRATE Max Gruenhut 24
dms (2868 lbs) (Nedloyd Rocheste) Rotterdam, 7/
15.
DIETHYLENETRIAMINE Berol Chemicals 48 dms (21693 lbs) (Alienijo Compass) Gothenburg, 7/7.
DIETHYLENETRIANAMINE Traipak 11 tnk (41697 lbs)
(Alexandra) Rotterdam, 7/18.
DIETHYLETHANOLAMINE Order 3 lnk (120217 lbs)
(Nedloyd Rocheste) Ersmerhaven, 7/15.

the) (Al Wattysh) Dubal, 7/21. CELUKAVIT B M & T Chambale 900 bgs (41270 lbs) (Ever Living) Antworp, 7/21.

Living) Antworp, 7/21.

CENTRIFUGEO GREY CARNAUBA WAX Robert 8 Bal-(Nedloyd Rochests) Bremerhaven, 7/15.
OHYDROSTREPTOMYCINE Rhons Pouleno 116 ctn.
(4248 lbs) (Attautic Service). Le Havre, 7/23.
DHYDROTHIOTOLUIDINE, SULFO, SAEUR, Order, 125. CENTRIFUGEO GREY CARRALIDA WAX ROBERT & Sel-dini 800 bgs (44674 lbs) (San Martin I) Fortaleza, 7/16. CERIDUST 8615 A Order 72 bgs (4034 lbs) (Stuttgart Express) Brameriusven, 7/22. CHAPARRAL LEAVES V A COrdovi 67 bgs (2659 lbs)

csk (37439 lbs) (Ever Greet) Hamburg, 7/10. DIMETHYLAMINOPROPYLAMIN Order 2 link (79542 lbs) (Heide) Rotterdern, 7/25. DIMETHYLETHYLAMINE Order 124 drne (42509 lbs). (Polwind) Vera Cruz. 7/25.
(Polwind) Vera Cruz. 7/25.
CHILLIEB Caarnhouwer 2500 bga (38898 lbe) (Al Wattyah) Jebel All. 7/61.
CHILLIEB STEMLESS Intl Brokers 1500 bga (3898 lbe) (Ever Buperty) Fob. 7/19. DIMETHYL BULFOXIDE Order 78 drije (38538 lbs) (Ever CHILLIES STEMLESS Intl Brokers 1500 bgs (83998 bbs)
(Al Wattysh) Jebel All, 7/21.
Otto Gerdau 1500 bgs (83998 bbs) (Al Wattysh) Jebel All, 7/21.
CHO Gerdau 1500 bgs (83998 bbs) (Al Wattysh) Jebel All, 7/21.
CHILLY POWDER Rhee Brothers 850 oin (16199 bbs)
(Louis Maersk) Horig Kong, 7/24.
CHINA CLAY GROLLES LIMP Anglo American Clays 80
bbg (90521 bbs) (Ever Living) Febrstows, 7/21.
CHINESE CEDARWOOD OIL Mail 127 dms (50397, bbs)
(Ever Linkre) Hong Kong, 7/20.
CHINESE MENTHOL CRYSTALS Hudson Bhog 168 dms.
(1616 bbs) (Alexandra) Bremen, 7/18.

Superb) Foe, 7/18.

Superb) Foe, 7/18.

DIPENTAERYTHRITOL Sumitrans 640 bgs (28783 lbs)

(Ever Linking) Tokyo, 7/20.

DIPHENHYDRAMINE HOL, USP, XXI, Leeding Fwdrs 20

pkg (2488 lbs) (Kiso Menu) Kobs., 7/18.

DIPHENYL OXIDE inti Playor & Fragrances 12 dms (5900 lbs) (Bing He) Sharighsi, 7/19.

ETHYL ACETATE 'Rekortan Sports 7 bri (3087 lbs) (Ever Living) Antwerp, 772.

ETHYL ALCOHOL H5M General Trucking 25 ofn (1100 lbs) (Astanto Compass) Liverpool, 7/7.

ETHYL ALPHA CHLOROPROPIONATE Phone Poulend 188 dms (80116 lbs) (Neddloyd Express) Marseille, 7/22.

THYL SROMOGETATE Ameritron 27 dms (5855 lbs) (Argonaut) Haifa, 7/28.

(88167 lbs) (Alexandra) Felixatows, 7/18. CHLORURE D EHTYLE HEXANOYLE Grips 40 dms ETHYL ORTHOFORMATE Rhone Poulenc 30 dms (17725 ibs) Dragor Maersk) Marsella, 7/18.
CHDLINE BITARTRATE Gamrak Chemical 120 dms
(14339 ibs) (Nedloyd Rocheste) Rotterdam, 7/15.
CMETIDINE MG Transport Werehouse 36 dms (2167 ibs)

ETHYL ORTHOFORMATE Rhone Poulenc 30 dms (13042 lbs) (Nedlicyd Express) Marsellie, 7/22.

ETHYL VANILLIN FOL Vanila Flavour 20 kga (2381 fbs) (Dart Continent) Felixstowe, 7/22.

ETHYLENE OLYCOL Order of Bhipper 1 bks (9287968 lbs) (Bioti 8pan) Arstu, 7/26.

1 bka(1041823 fbs) (Stoti Span) Santos, 7/26.

EUGALYPTOL Klockner Chemical 40 dms (17967 lbs) (Copiapo) Velparalso, 7/24.

EUGALYPTUS DIL 8 MUSK KETONE Drder 130 dms (25325 lbs) (Bind Hei Koba, 7/19. (Woenedrechi) Hamburg, 7/25. NNAMON GUILL6 Khi Flavora 135 mix (14823 lbs) (At Wattyah) Jebel All. 7/21. CITRIC ACID Omnitrans 1870 bgs (169593 lbs) (Evar

CTRIC ACID Offitinas 1870 bgs (159593 fbs) (Ever Great) Hamburg, 7/10.

CTRIC ACID ANHYDROUB Order 1584 bgs (182964 lbs) (Ever Great) Antwerp, 7/10.

800 bgs (45415 lbs) (Ever Living) Antwerp, 7/21.

CTRIC ACID ANHYDROUS FINE GRANU Dirder 1600 bgs (90830 lbs) (Ever Great) Antwerp, 7/10.

CTRDNOVA DRANGE Filmenich 19 dms (7811 lbs) (Gan Martin flashbs. 7/18 (25925 lbs) (Bing He) Kobe, 7/19. EUGENDL Order 15 drns (6814 lbs) (American Illinota) Singepore, 7/21.
FATTY ACIO NON HAZARDOUS Morris Friedmen 1 tak

(41050 lbs) (Nedlioyd Rochester) Rotterdam, 7/15. FATTY ALCOHDL. Amato Agency 520 bgs (31652 lbs) (Nedlioyd Rochester) Bramerhaven, 7/15. FATTY ALCOHOL HO OCENDL Hankei 2 tnk (78542 lbs) Martin i) Santos, 7/16. CITRUS OILS Baromatic 11 dms (3137 lbs) (Zim Montreal) (Alexandra) Riotterdam, 7/16. ENNEL Sedemoo Imports & Exports 100 bgs (11023 lbs) Helia, 7/20.

CLAY Bermude Ocean Shpg Service 40 bgs (2297 ibs)
(Atlantic Conveyor) Uverpool, 7/21.

CLAY GRAPHITE CRUCIBLES HOISTS E Nolling

(Argoneut) kmir, 7/28. FENNEL SEEDS Agent 500 bgs (11D230 lbs) (Zim Genovs) Halfs, 7/8. Griffith Laboratories 167 bgs (24323 lbs) (Al Wattyah) Dubal, 7/21. burg, 7/25. CLOVE LEAF OIL Cham Fieur 75 dma (38538 lbs) (Ever McCormick 220 bgs (24295 lbs) [Al Wettyah] Dubal, Unking) Sindapora, 7/20. Drdar 160 dms (78036 lbs) |Ever Unking) Singapore,

icibia Refractoria 1 con (44092 lbs) (Heida) Ham

CLOVEB East West Intl 200 bgs (22399 lbs) (San Martini I)

Spice Mill 1000 bgs (110230 lbs) (Zim Genova) Helts, 7/8.
FENUGREEK Bedemoo importa & Exporta 200 bgs (22048 lbs) (Argonaut) izmir, 7/28.
2590 ctn (58518 lbs) (Dant Allantics) Felixstows, 7/29.
FERRIC AMMONIUM EDTA Surface Air intl 2 tnk (62278

Santos, 7/18.

COALTAR 5 DYE INTERM MALONDNTRIL Lonza 28 dms (14385 lbs) (Stutigert Express) Bramerhaven, 7/22. bs) (Ever Living) Antwerp, 7/21.
FERRIC CHLORIDE HHI 30 dms (6918 lbs) (Dart Conti-CDALTAR DYES Basi imports 44 pit (39674 lbs) (Almudana) Leghom, 7/25. CDALTAR INTERMEDIATE Montedison 180 cms (21784 nant) Antwerp, 7/22.

FERRIC CHLORIDE PURIFIED 6 HEXAH Trans World 180 dms (42461 lbs) (Ever Greet) Hamburg, 7/10.

FERRD SILICIUM Foseco 279 pkg (42549 lbs) (Dragor Maersk) Marseille, 7/1.

FI6H DIL Order 20 con (43872 lbs) (Hekle) Rotterdam, 7/25 lbs) (Zim Ganova) Bercelona, 7/8. COBALT Drder 380 dma (209940 lbs) (Dart Atlantica) Antwerp, 7/29.

CDBALT NICKEL ALLOY Parkens Intl 12 dms (1267 lbs) (Dart Continent) Felixetowe, 7/22. CDD LIVER DIL La Prafarida 800 ctn (33444 lbs) (Haide)

Scanfreight 4 dms (1634 lbs) (Atlantic Compasa) Gothenburg, 7/7. FLUOROANIUNE Olin 104 dms (5612 lbs) (Dart Conti-

Rotterdam, 7/25. COD LIVER DIL 5 MALT La Preierida 60 ctn (2083 lbs) )Helds) Rotterdam, 7/25.

CDLLAOEN STERILE SDLUTION Natural Nydegger Transports 5 cin (0 lbs) (Atlantic Star) Le Havre, 7/16. nent) Felixatowe, 7/22. FLUOROBDRIC ACID Hoyer 1 tnk (38242 lbs) (Atlentic Glar) Bremerhaven, 7/18. FLUOROCARBON POLYMER Nichimen 176 dma (21D14 COPPER PHTHALD CYANINE BLUE CRUDE Nagase America 100 bgs (5401 lbs) (Ming Moon) Kobe, 7/ 23.

FLUOROCARGON POLYMER Nichimen 176 dma (21D14 lbs) (Leds Mesrsk; Kobe, 7/18. Schenkara Intl. Fwdrs 71 bdi (8347 lbs) [Klso Maru) Tokyo, 7/15. FLUDRD CARBON PDLYMERS Viking Sea Freight 84 dms (7381 lbs) (Klso Maru) Tokyo, 7/15. FUMARIC ACID J M Rodgers 700 bgs [39251 lbs) (Al Wattysh) Genoa, 7/21. FUNGCIDES Clba Geigy 756 pkg (43254 lbs) (Atlentic Sarvics) LeHevre, 7/23. Rohm 5 Haes 116 dms (27315 lbs) (Sea Land Voyager) Rottardsm. 7/24. FUNGICIDES NOT DANOEROUS Clba Oaigy 758 pkg (43254 lbs) (Atlentic Start) LeHevre, 7/16. D SALT MOIST MW 304 Clba Oeigy 72 dms (21111 lbs (Stuttyst Express) Hamburg, 7/22. 23.
CDRIANIDER 8adamco importe & Exporte 210 bgs j23148 lbs) jArgonaut) izmli, 7/28.
CDRIANIDER SEEDS Agent 400 bga (35274 lbs) (Zim Ganove) Halls, 7/8.
CUPRDUS THIDCYANAT Pluaas Staultar 600 pkg

(34392 bs) jever Great) Felixstowa, 7/10.
CYANINE BLUE CRUDE Leydan Quatoms Expaditere
800 bgs (43078 ibs) jMing Moon) Nobe, 7/23.
CYANOACETAMIDE Davos Chemical 2 dma (478 lbs) (Ming Moon) Koba, 7/23.

CYANOACRYLATE ADHESIVES Kuahna 6 Nagel 392 ctn (1 1962 lbs) jD montal Minlater) Yokohama, 7/22.

CYANURIC CHLDRIDE Deguesa 360 dms (88509 lbs) |Stuttgarl Express) Aniwerp, 7/22

CYGRO PREMIX Drder 2 pli j2337 lbs) Zinr Montresi)

OARUC Sayet Express) Hamburg, 7/22.

DARUC Serge Brierre Exports & Impo 1450 cs (35164 bs)
(Saa Land Leador) Algacirea, 7/22.

Serge Brierre Exports & Impo 2900 pkg (70327 lbs) Borcalona, 7/20.

D ACID NAPHTHYLAMINE DISULFDNIC 8emo Shpg 35

(Sea Land Laader) Algedres, 7/22.

GARLIC ORANULES Chins United Trog 520 ctn (31526 lbs) (American tilinols) Hong Kong, 7/21.

GELATIN Croda 182 dma (34764 lbs) (Atlantic Compass) dms (10848 lbs) (Ming Moon) Kobs, 7/23. D L PHENYLPADPANDLAMINE Mitrana 114 dms (13949

bis) (Drionital Minister) Kobe, 7/22.

DEADBURNT MAGNEGITE Order 1 bits (11029100 fbs)
(Julis) Yeraldri, 7/24.

DECDRTICATED CARDAMDM8 William E Martin 6 Gons Liverpool, 7/7.

Trans Marine Systems 84 dms )15291 lbs) (Atlantic Conveyor) Liverpool, 7/21.

Corbett inti 400 dms (93916 lbs) (Ever Superb) Fos, 7/16.

600 bgs (41103 lbs) (Nedlloyd Express) Marselle, 7/22.

Croda Gelstin 80 dms (8560 lbs) (Stuttgart Express)

Greenock 7/22.

Greenock, 7/22.

GELATINE EDIBLE Davis Geletins 600 bgs (40565 lbs)
(American Lancer) Suenos Aires, 7/17.

GINGER K I Utser 60 bgs (11164 lbs) (American Illinois)
Singepora, 7/21.

GINGER OiL Polarome Mig 5D otn (2548 lbs) (American Illinois)
Hinois) Singapore, 7/21.

GLYCERINE Scalop 1 bks (6573 lD lbs) (Golar Petrosea)
Beterlam, 7/22. Rotterdam, 7/22. GLYCINE Order 150 dms (92077 tbs) (Leda Maersk)

Tokyo, 7/16.
GRAPHITE Asbury Graphite Mills 4760 bgs (226021 lbs)
(Bing He) Kobe, 7/19.
Lonze 858 bgs (36698 lbs) (Stuttgert Express) Bremerhaven, 7/22.
Order 28 State (2007)

haven, 7/22. Order 28 mb (36736 lbs) (Hreijin) Marseile, 7/16. 36 pkg (36847 lbs) (Hreijin) Marseille, 7/16. GRAPHITE ELECTRODIES Order 1 con (40860 lbs) (Hreijin) Marseille, 7/18. GRAPHITE PDWDER Marubeni America 50 bbg (80234

(be) (Heide) Hamburg, 7/25. GREEN CARDAMOMS Dehiyet Al Kuwati Trog 250 cm (28207 lbs) (Schackholog) Pt Limon, 7/17. GUAR GUM Celanese 720 bgs (40000 bs) (Al Watiyah) Dubel, 7/21. Polypro Intl 765 bgs (42657 lbs) (Al Wattyah) Jabel Ali, 7/21.

Precent Gums 800 bgs (40565 ibs) (TFL Jefferson) Felbratows 7791 Felicatowe, 7/21. SAE Pellet 1760 bgs (89502 lbs) (Vishva Parag) Algeciras, 7/26. QUM ARABIC F H Taussig 50 bgs (11243 lbs) (Dragor Maerski Marselle, 7/18. GUMROSIN WWAJ Ellott 400 bgs (44753lbs) (American

Ohlo) Rotterdam, 8/1. 6AP Atjantio 382 dms (188308 lbs) (Netuno) Paranagua, 7/8.

HACID MONOSODIUM SALT Nehis & O'Conne6560 bgs (30759 lbs) (Ming Moon) Yokohame, 7/23. HELIOTROPINE Ungerer 2D cak (2359 lbs) (Netuno) Santos, 7/9. HERBS CASCARA Order of Shipper 42 bgs (3148 lbs) (Polyfrid) Vera Cruz, 7/25. HEXAMETHYLDISILOXANE TOLUENE Dow Coming 2 cin (49 lbs) (Atlantic Conveyor) Liverpool, 7/21.
HEXANE POLYMER GRADE Ashland Chemical 1 bks (61 1340 lbs) (Golar Petrosee) Rotterdam, 7/22.
HIDE GLUE TO Downing 380 bgs (39842 lbs) (Sen Mertin I) Santos, 7/16.
HYDROFLUGRIC ACIO J M Rodgers 72 dms (36889 lbs) (Ming Moon) Kobel, 7/23.
Trans World Shop 72 dms (36889 lbs) (Ming Moon)

Trans World Shipg 72 dms (38889 lbs) (Ming Moon)
Kobs, 7/23.
HYDROGENATED CABTOR Oll, Order of Shipper 3000
bgs (153076 lbs) (Netuno) Santos, 7/9.
HYDROQUINONE PHOTO GRACE Mileul, 720 bgs
(41023 lbs) (Oriental Minister) Kobs, 7/22,
HYDROXIOE MONOHYDRATE Kall Chemis 720 bgs
(40678 lbs) (Export Freedom) Leghom, 7/16.
HYDROXYETHYLPIPERAZINE Berot Chemisals 30 dms.
(14550 lbs) (Atlantic Compass) Gotharburg, 7/7.

\$1,562

# THAT'S WHAT AN AD LIKE THIS WOULD COST YOUR COMPANY

The price is right. Even better for a 13-time schedule. \$1,342 per insertion. Better yet for 52 times. \$1,174 per insertion. And we can let you have highimpact color too for something extra. Put your company and its marketing message where the chemical buying action is.

# CHEMICAL MARKETING REPORTER

100 CHURCH STREET, NEW YORK, N.Y. 10007 - 2694 (212) 732 - 9820

the second of the second of the second

H.H.OUUHD.A.TIMODEUSS



COMPLETE PLANT FOR THEIR POSTOALLING UNING: PILOT ... FOLK SHAW HELDER BUT TO A LOCALITY

COMPLETE OF ACADES. MORE AS I THE SECOND SOCIETY AND "NOTARY VASICACIONALES CONTRACTOR STANDARD CONTRACTOR C

BRE BURNER OF BURNEY-TO-HOME, ISSUED, BURNEYER

BOREMANNEL AND THE PROPERTY OF THE OF THE STORY CHEEK FIL Swammer Carly to CH. 13 DEVACE THE TO, (1) OF (2) POSENT CONVENTED:
316SS RUTAR COMPRESSOR OF A TO A CONTRACT TO CONTRACT.

SUBSTITUTE OF THE PARTY OF THE SECOND OF VARIOUS SIXES & ANALYTICAD TO CO. COMP. LERROSCO. \$8 8 CH 129 (ABY VAC, BRYGGG a 125, 160, 10, 10, CO, 14 主象的特別報告

PROPERTY OF THE AND AND THE RESIDENCE LEAD (6) STAR IN DIA., IN & 21 CHAMBERS, SS SPEARY SET ARE SECULATION OF COLLEGE OF CHARMERS OF CH

THE PROPERTY OF THE PROPERTY OF THE PARTY OF MCLIOTRIC POPERED FIRE PUMP...NEW IN 1884 ELECTRIC POWERED FIRE PUMP 150 HP

100 CIL FT. MINISON SS ROUBLE HIRBON BLENDEN SYSTEM TITTLEFORD MAN, FRANZOROO, 73.5 CU. FT. 70 CU. FT. DAY, 55 HIRDON ULENDER SYSTEM

GAUERIMEISTER TURROMILL, 40 UP, COMPLETE SYSTEM FUZZPATRICK MDL. DE COMMINUTOR 7.5 HP FITZMILL MOL. DXSO12 COMMINUTOR ENTOLETER MILL 6 HP, MDL. M1112G1-23

(1)3,000, (7) 2,000, (22) 1,000 (8) 500, (2) 300, (1) 200, (1) 130, ACTORS FOLLOW (4) 100, (4) 50, (1) 30 GALLON RECEIVERS & GRAPHITE HEAT EXCHANGER STAINLESS STEEL 316 & 316 ELC (1) 4,000, (1) 3,000, (3) 2200, (6) 2000, (1) 1,300, (2) 1,250, (8) 1,100, (7) 1,000, (7) 500, (2) 300, (1) 30, (1) 10 GALLON

SMITH MOLECULAR ROTA-FILM MDL. 700-12-P, SKID MOUNTED SOLVENT RECOVERY SYSTEM OTHER DISTILLATION COLUMNS AVAILABLE

O MAST G O MAST G O MAST G O MAST G O MAST G O MAST G OF THE CONTROL OF THE CONTR NEW 1600 SQ. IT. HAST CHEAT EXCHANGED

an the The transfering part of the second to the transfering the second

TANKAS / 配置CENVERS GLASS LSIED RECEIVERS & CHERSTORS (2) 2,000, (10) 1,000 (1) 500, (4) 250, (6) 100, (2) 50 GALLON

(1) \$,600, (1) 4,000 (1) 3,600, (6) 2,000 (3) 1,500, (7) 1,000, (1) 000, (7) 500, (1) 200, (3) 250, (6) 200, (1) 100, (3) 100, (3) 50 GALLON

Principle (Plan (I) Topico Califord Principle (I) Topico CALCOI Street (Plan In (I) Topica Califord នេះនៅនេញ សត្ថភេស៊ីប្រទៃស៊ី ស៊ីស៊ី ស៊ីស៊ី (X) ស្រាន CAO បារា

TWO FORDERS - WINDOWS OF THE SERVICE 150,000 LBS/HI: @ 700 PSI PKG. ST. DOILER 50,000 LBS/HR @ 250 PSI PICG. ST. DOILER 6'x 50' 304 SS ROT. HOT AIR DRYER 5's 30' CS ROT, HOT AIR DRYER 4'× 34' 72 TUBE SS BOY ST. DRYER 34,000 SQ. FT.YEIPLE EFFECT EVAP. TI TODES 600 Sq. FT U. S. AUTOJET FILTER CEILCOTE IND (3) 900 SQ. FT. MERCULES 316 ELC PR/LF FILTERS (4) DUCOM SS WET SCRUBBER 11500 CFM 22,000 GAL 316 SSV MIX TANK 13'x 20' 9,000 GAL. SS VERT, MIX TANK 13'x 8' 7,000 GAL. 316 SS V CONE BOTM. TANK 10'8"x 9'6' 6.500 GAL 316 SS V CONE BOTM, MIX TANK 12'7'8' 5500 GAL 315 SS MIX TANK 12'x 6' 3000 GAL SS V MIX TANK 9'x 6'6" (3) 3000 GAL 316 V VAC.TANK15 PS(/FV

4000, 5000, 6000 GAL. RUBBER-LINED AGITATED REACTORS, VERY ATTRACTIVE PRICES!

PLUS MANY MORE ITEMS

SYNTHETIC GAS PLANT

250,000 CU. FT./DAY

2 TRAIN LOCATED ON 60 ACRES OF LAND WE WILL SELL ENTIRE FACILITY OR INDIVIDUAL PIECES OF EQUIPMENT

FOR MORE DETAILS

FOR SETTING UP AN IMMEDIATE INSPECTION CALL OUR SALES DEPARTMENT NOW! 609-443-4545

PLEASE CALL RALPH CARTER FOR FURTHER INFORMATION AT 609-443-4545

TO RECEIVE OUR FREE 300 PAGE ENCYCLOPEDIA OF CHEMICAL PROCESS EQUIPMENT CALL OUR TOLL FREE NUMBER 800 CHEM-CAT (800-243-6228) IN N.J. - 609-443-4545

CENTRIFUGES

P5400 Sharples, 318 S/S RECONDITIONED P3400 Sharplas, 316 8/S, (5) P3400 Sharplea, 316 S/S, carbide tilea P3000 Sharples, 316 s/S, RECONDITIONED P660 Sharples, 318 8/S (2) 40"x 80" Bird, 304 s/S, reconditioned by mfr. 6" Bird OSS, 318 s/S

6" Bird OSS, 318 S/S NX314 DeLevel, 316 S/S 48" Sharplea "Tornadomatic" 318 S/S (2) 48" Tolhurst, "Betch Master", 8/S (2) 48" Sharplee "Studga-Pak" Model SP-8500, 316 S/S 48" Western States, "Sludga-A-Tron", 316 S/S, (3) 32" Baker-Perktns, pusher design, 316 S/8 32" Baker-Perkins, puaner design, 316 S/S 26" AT&M suspended centrifuge, 304 S/S 5 H.P. 12" Krausa-Meffet, pusher dasigned, 316 S/S 6" Seker Perkins Pusher Design, 318 S/S SB800 Alfa-Level pusher design, 316 S/S

## SZEGVARI ATTRITORS

60 gal. Szagvari, jacketed, atainiesa steel 15 gal. Szegvari, jacketed, atainiesa steal

**PRESSURE FILTERS** 

460 sq. ft. Durco-Enzinger, Model 80DHC469, 31888 370 aq. II. Niagare Modal 370-346, 30488 322.6 aq. ft. Funda Modal R-30, 316 S/S, jktd., 40 HP 314 eq. ft. Niagare, Model 42-310-22, 304 S/S 259 aq. ft. Pronto, Model 3259, S/S (2) 160 aq. ft. Sparkler, Model 33530, S/S (2) 107 aq. ft. Sparkler, Model 33519, Nickle

**VACUUM FILTERS** 

8'x16' Ametek, 318 ELC S/S LIKE NEW CONDITION 6'x6' Ametek, potypropylene 5'x7' Pexmsn, 316 8/8, precoat 16"x12" Elmco, 318 S/S, precoat

REACTORS-TANKS S/S, G/L Reactors, up to 5000 gal. capacity, Tanks up to 15,000 gal. capacity (100's in stock) (S/S, G/L, C/S, FRP)

HORIZONTAL BELT FILTERS

6'x16' Elmco, rubber balt, vecuum (2) 4'x12' Elmco, rubber balt, vecuum (2) 2'x10' Stratghtline, rubber belt, complate 2'x7' Streightline, rubbar belt, complate 1'x3' Elmco, rubber balt, complete

**BELT FLAKERS** 

60"x60' Sandvick, S/S beit, with cooling delumper, all accessories. NEW CONDITION 30"x20' Sandvik, S/S beit flaker, complete

FITZ CHILSONATOR Size 16 x 30 Fitzpatrick Chilsonator System, all S/S construction, with size 30 granulator, with drives

BALL/PEBBLE MILLS 5'x8' Patterson Jecketed Steel Ball Mill, 50 H.p. 5'x8' Petterson Jacketed Steel Ball Mill, 30 H.p. 3'x4' Patterson Pebble Mill, aricita linad

SAND MILLS

12-30 Morehouse-Cowles Sand Mill, 50 H.P. 10-26 Morehouse-Cowles Sand Mills, 25 H.P. (2) 16-P Chicego Boller "Rad Head" 30 H.P. 3-P Chicago Boller "Red Head," 7½ H.P. Lab Chicago Boller "Red Head," 1 H.P.

LAB 3 ROLL MILLS

6"x12" J.H. Day, high epeed, complete 4½"x10" Ross, high speed, complete 4"x8" Kent, high apeed, complete

**ALL NICKLE CONSTRUCTION** 500 gal. Nooter Reactors, 30/50 PSI (2) 500 sq. ft. U.S. Autolet Pressure Filter 107 sq. ft. Sparkler Pressure Filter, Model 33-8-19-5'x3' Ametek Rotary Vacuum Filter

JUST PURCHASED

7500 gal. Terre Haute Fermentars, 304 S/S, 50 psi (5) 4000 gal. horizontal batch still, S/S 2500 gal. Hicka tanks, 316LS/S, 50 pal or F/V 2000 gal. Nooter reactors, 316L S/S, 60/90 pai (8) 2000 gal. Pfeudler reactor, 316L S/S, 80/90 pai 2000 gal. Mualler reactor, 316L S/S, 80/90 pai 2000 gal. Molaier reactor, 5 to 2.5/5, 50/50 pc. 2000 gal. horizontel batch alili, S/S (2) 1250 gal. S/S Mix Tenks, 10 HP Veri- Drive (2) Miac. G/L tanks and kettlea, to 3000 gal. (8) ST 100 Aaromatic Fluid Bed Dryer, all S/S

TAN TO THE WATER THE OWN THE

(FA):NASHIGL (WATERIS AND WACDUM FUM RESEARCH GOMES AND WACDUM FOR A STANDARD OF SEARCH FOR A ST

#### RESIN MFG. EQUIPMENT-**OHIO LOCATION**

5000 gal. 8truthers-Wella Reactor System, 347 S/S, 50 PSI or full vecuum Internal, 75 PSI jacketad, 700°F, turbine agitator, with condeneor, raceiver, piping,

controle
15,000 gal. Stainless Steel Tanke, vertical, with internal colla, top entaring 30 H.P. turbine agitatore (3)
200 gal. Baker-Perkina Mixars, alze 17GiM, type 304 atainlass etael construction, fully jacketed, duplex dispersion btadea, acrew tilt, 40 H.P. (5)
35 gal. Patterson "Kneadermaster" Mixers, 304 steinless steel, sigma biedes, jacketed, 40 H.P. (5)
100 H.P. Sprout-Waldron Hammermilis, Model CG-28 (5)
28" dia. Reitz Thermascrewa, 304 S/S, jacketed trough 28' long, 15 H.P. varid rive (2)
40"x64" Patterson 8creena, 1 deck, S/S (9)
IMMEDIATE AVAIL ABILITY-CALL FOR DETAIL

IMMEDIATE AVAILABILITY-CALL FOR DETAIL

**NEW LIQUIDATION** 

**PVC Suspension Plant Ohio Location** 12-5,000 gel. Pfaudier Reactors, C/8 construction, rated 220 PSI internal, 60 PSI jackat, 50/25 H.P. Philadelphia

Complete Nara Vertical Fluid Bed Dryer System, all \$/\$, 8'7" x 22'1", 2 stage, reted up to 10,000 #/hr., with hesters, blowars, cyclonaa Complete Proctor Varticel Flash Dryer Syslam, ell S/S, 3'1"

Complete Proctor Varticel Flash Dryer Systam, ell S/S, 3'1" x 117'2", with heater, blowar cyclonaa 20,000 gal. Stainleaa Steel Mix Tanks, 13'8"x19', 20 H.P. (2) 16,000 gal. Stainleas Staet Mix Tank, 12'x16'4", 10 H.P. (1) 15,000 gal. Stainless Steet Mix Tank, 9'8"x27'8" 40 H.P. (1) 6,500 gal. Steinleas Steel Tank, 9'8"x15'2" (1) 6,000 gal. Glascote Vacuum Racelver, Glass-Lined (1) 7,000 gal. Stainless Steel Mix Tanks, 13'x8"x6', 7½ H.P. (2) 6,500 gal. Glascote Vacuum Racelver, Glass-Lined (1) 6,500 gel. Stainless Steel Mix Lenks, 10 x6 x6,772 file. (4) 2,250 gel. Stainlass Stael Kettles, 8'6"x6', jacketed, 1

2,250 gal. 8 teinlass Stael Kettles, 6'8"x 8', jacketad, 3 H.P

2,250 gal. 8 tainlass Stael Kettles, 6'8"x 8', jacketad, 3 H.P.

(2)
2,000 gal. Stainless Stael Mix Tanks, 6'x6'4", 2 H.P. (3)
1,000 gal. Stainless 6ts al Kettlas, 5'4"x8', jacketad, 2 H.P. (2)
1,000 gal. Stainlass Steel Jacketed Tanks, 5'4"x8' (2)
4-A.O. Smith Silos, Glaae-Lined, 14'x40', bolted
1-Butler, Epoxy-Lined, 9'x32' welded
220 CFM Sullaire Compraasor, 125 PSI, rotary ecrew dasign
117 sq. ft. Milkro Pulsair Collactor, Model 25S-6-30, 5/S
Derrick Screen, single deck, 3'x5'
Miac. tanks, feeders, blowers, cyclones, pumps

REACTORS

5000 gal. Struthers-Wells, 347 S/S, 50#/75#
2500 gel. Cryochem, 318 S/S, 75#/75#, with coil
1600 gal. Perry Products, 316 S/S, 78#/180#
750 gal. Pfaudler, Glass-Lined, 100#/90#
200 gal. Pfaudler, 316 S/S, 56#/60# UNUSED
200 gal. Pfaudler, Glass-Lined, 100#/75#
80 gal. Pfaudler, Glass-Lined, 25#/90# complete aystam

tem 30 gal. Pfaudier, 316 S/S, 80#/90# UNUSED 30 gal. Pfaudier, Glass-Lined, 25#/90# 10 gal. Pfaudier, Glass-Lined, 150#/65# 8 gal. Pfaudier, 316 S/S, 50#/80#

S/S PULVERIZERS

80 ACM Mikro Mill, 75 H.P.
PC-36 Strong-Scott Pulvecon, 180 H.P.
FASO-20 Fitzpatrick "Fitzmill", 7½ H.P. (2)
D-6 Fitzpatrick "Fitzmill", 7½ H.P. (2)
18H Mikro Pulverizer, 8 H.P.
Manesty "Reforms" October Manesty "Rotogran" Oaciliting Granulato

SPECIAL OFFERING

33' die. Niro Sprey Dryera, 318 S/S, UNUSEO (2) bos-plete apray drying leci)ily, naver installed, including (2) 33' die. chamber, Modal F-350 cantrifugel stenit-era. All equipment new 1978, as shipped from her

10' dia Niro Fiuld Bad Dryar , 304 S/S, UNUSED, on plete system with drying chamber, hasting-color aystems, feed tanks, cyclono collactors, all plan.

> **VACUUM DRYERS** BIG OR TOO SMALL.

375 cu. ft. Stehning, Double Cone, S/S (9) 175 cu. ft. Venuleih, Double Cona, S/S (3) 80 cu. it. DeDelirich, Doublo Cona glass lined 50 cu. ft.F.J. Siokea Doublo Cona, 304 S/S 40 cu. fi. F.J. Slokaa, Rotary, Vacuum, 30"x8', 5/8 21 cu. ft. Ballour, Double Cona, glas linad 20"x10' Zimmer dble. s crew Hololillas, S/S ikid, yeg.

**MIXERS** 200 gal. B-P, C/S, algma, jackalad, vac., 75 H.P.(3) 75 liter Papenmair Mixer, S/S, jackaled, 30 H.P. verking 8 cu. ft. Kelley Duplex, paddia, S/S, NEW 3.5 cu. ft. J.H. Dey, Nauta, S/S

**DISPERSERS** 25 H.P. Shar, XP, variable spaad 15 H.P. Meyers, XP, verlable epaad

FARREL LAB 2 ROLL MILLS

8"x18" Ferrel Lab Mill, elactrically hasted, veries epeed, varioble friction 8"x13" Ferrell Lab Mill, 10 HP drive 3"x7" Ferrell Lab Mill, oil healad, variable speed

LITTLEFORD MIXERS

FKM 8000 D, 189 cu. ft., carbon staal, 4choppers FKM 8000 D, 189 cu. ft., carbon alael KM 4200 D, 86 cu. ft., jacketed, stainless siesi FKM 3000 D, 85 cu. ft., jacketed, stainless siesi KM 2000 D, 43 cu. ft., jacketed, stainlass sleel M 20 E, 42 cu. ft., jacketed stainlass steel

S/S RIBBON BLENDERS 2-215 cu. ft. Cleveland Mixer, double ribbon, 25 H.P. 1-150 cu. ft. Reedco, double ribbon, 40 H.P.

1-36 cu. ft. J.H. Day, double ribbon, 10 H.P. ROSS PLANETARY MIXERS

10 gal. Ross, HDM-40, S/S, Jacketed, vacuum, 10 HP.

25 gal. Ross, HDM-25, S/S, 15 H.P. varidrive 2 gal. Ross, 130-ELS, S/S, Jacketed, vacuum, 4 HP. varidrives

ARTISAN EVAPORATORS 50 sq. ft. Artisan "Roto-therm" Evaporators, all \$6

construction, F/V internal, 150 PSI jacket (2) 1 sq. ft. Artisan "Rototherm" Lab System, all S/S

COMPACTING PRESSES 78 ton Bipel Preform, Model 70T, complete 6½ ton Manesty, Model BB3A, 27 station 6½ ton Manesty, Model BB3A, 33 station 4 ton Manesty, Model F-3, single punch

REFRIGERATION

200 ton Lewis Package Chiller, complete
30 ton Application Engineers, Package Chiller
15 ton Application Engineers, Package Chiller
10 ton Application Engineers, Package Chiller 7 ton Msysr Package Chiller 5 ton Dunham Bush Package Chiller 5 ton Peuchan Package Chiller, (2)

48" Sweco, S/S, 1 deck 30" Sweco, S/S, 2 deck 18" Kason, S/S, 1 deck, unused (3) 36"x96" Rex-Carrier, 1 deck, S/S (4) 20"x46" Rotsx, 1 deck, S/S

HEATEXCHANGERS Shell and tube heat exchangers, stainless steel 2000 sq. ft. surface area-dozensi PARTIAL LISTING ONLY — CALL FOR CURRENT 16 PAGE BROCHU

RIGGING DISMANTLING **RE-ERECTION** 

**EQUIPMENT WANTED** USED, CHEMICAL PHARMACEUTICAL & RELATED EQUIPMENT - CENTRIFUGES DRYERS, FILTERS, REACTORS

TANKS ETC. WE WILL PURCHASE INDIVIDU-AL ITEMS OR COMPLETE PLANTS. CALL OUR OFFICE TODAY. TOP DOLLARS PAID. NO DEAL TOO

DRYERS

Drum Dryers/Flakera dryer at 32" die.x 108" Siev Knox Ct dbie. dru diye! 132'ele, x 17'6'' Bendvik SS batt flokor 136'dis.x 10' Buflovek Ci dbis, drum dryar 142'die.x120''Blaw Knox Ct dbis, dsum

dryer 148"de.x 28" drum flakor, chrome platac 48"de x 40" Ct flaker, mfg. by Buffald Foundary )-46"dia.x 40 drum tlakar, nickat platad drum, mfg. Blaw-Knox

180 Kg. Aerematic, Batch, 6'x8', 66,000 1100 Kg. Aerematic Modet ST 100, canitary Fitapatrick Model FA 250, SS, 20 HP XP

(i) Western Pracipitation Model P80SSO-A, twin screw, 12" die. x 20' tong, SS consis., jokt reted 15 pal, complete with 7.5 HP vert-speed drive.
(i) New/Never-Used Joy Processor, CS, single screw, 16"x16" tong, rated 110 pol @ 340" F, sprockat & chain drive by 1.5 tip verispeed drive.

Rotary Vacuum

11 200 Cu. Ft. Blokae, SS conetr., compit.
(2) 185 Cu. Ft. Plaudier, Ooubte Cono, G/L, 30
&Ff/50 pat fktd., 18 HP vari-divo
(1) 135 Cu. Ft. Blaw Knox, Nicket
(2) 132 Cu. Ft. Stokas, Nicket
(1) 72 Cu. Ft. Slaw Knox, SS
(1) 60 Cu. Ft. Titantum Ooubto Cone
(1) 80 Cu. Ft. Oemco, 316S8 sanitary, double

1) 37.6 Sq. Ft. Horlz. Thin Film, voc. Int. & 150 pig. 304/3 1688 (1) 30 Cu. Ft. P-K Twin Shelt, 304S8 (1) 20 Cu. Ft. Abba Twin Cono., 304SS

(i) 30"x3" Bowen Laboratory w/3" cone hot-toe, 35 constr., w/cantrifug at elemizar, 3-10 blows & meter.(1) I his lab size 32"diax2"w/2"cona w/contrit. elemizer \$5 contacts (1) 710" Die, Anhydro Complete System, feiligry Si 11) 15" dia, Sewen compit. system \$5 con-tacts, new 1878

CENTRIFUGES

Desvel GRPX 309, SS, 2DHP lunaed Model B-1D Podbiotniek, Alloy 20 Olimaed Model B-1D Podbletniek, Alloy 20
(I Supples AS-28, SS
I Shiples AS-18P, 318SS
(I) Mis-Ival SS Decenter, Horiz., Mdt. NX314
(I) Der Oliver Mdt. CHGO CSU "Marco." 316SS
coniscia, 180 HP
(I) Bad Re Y 28", 315 ELC, conflour bowl.
(I) Bid 18" X 28", 315 ELC, conflour bowl.
(I) Staples P-3000, 318SB, 30 HP
(I) Staples P-3000, 318SB, 30 HP
(I) Staples P-1000, SS 20HP
(I) Unvect Sird 36 x 96, 317L 68
(I) Tathurst 48", 24", 241 health 316SS

(f) Tohurst 48" x 24" parl. baskot, 31688 statisty, suto, plow & discharge, roled 88 %/cu. it. @ 900 RPM, 20 HP XP.

11) Tohurst 48" x 24" Selohmastor, 31888, perl.

Johnst 48" x 24" Belchmeeler, 31858, perf. bastet, w/hydr. plow & 20 HP hydr, drive 10-burel 48" 124" Batchmeeler, rubber lined, pet basket, w/hydr. plow & 20 HP hydr. drive lined, perf. basket, w/hydr. plow & 20 HP hydr. drive 1 Western gleice 100".

| Western states 48"x 24", 316 86 | Fistcher 48"x 28" Suspended type, 86 perf. | | Sheples Tornado 48" x 30", 31855, perf. | | Sheples Tornado 48" x 30", 31855, perf. |

And Level Model MAPA 210 (21)
Ports
(1) Sharples C-27, 318 SS, wetted perie, 40 HP
(1) Sharples C-20, Super-D-Hydrator, SS, 30 HP
(1) Port The MacCone Screener Model C-400 X2,
all SS, twin screw disch., 10 HP

DEMOLITION

BUY DIRECT FROM PLANT SITE AND SAVE

 $\Gamma'$ H 田

9850 SCFM Thermo Energy Recovery System

**EVAPORATORS** (1) t Sq. Ft. Artislan "Kontro" Ajust-O-Film sys., 316SS 13) 1.4 Sq. Ft. Luwa Wiped Film, 316SS, 1.5 HP (1) 1.4 sq. Ft. Luwa Wiped Film, 316SS, 1.5 HP (1) 2.5 Sq. Ft. Rodney Hunt Turbo Film 347 6S (1) 5.4 sq. Ft. Luwa Minturder, 316 LSS (1) 6.54 Sq. Ft. Votator Evaporator System, 315 SS contracts, 16 pol & FV & Int., 160 pol jul. (1) 8.7 Sq. Ft. Rodney Hunt Turbo-Film, 304 SS contact parts, 16 pol & FV / 150 pol jul. (1) 10.8 Sq. Ft. Luwa SS Wiped Film Evap. System, 16/550 pol (1) 19.5 Sq. Ft. Volaior Turba-Film, 304 Sanit. 35 FV/180 pol 10 NP.

(1) 20 Sq. Fl. Kersko Heriz. Adjust-O-Film, 318ELC, 50 paig, 15 [1] Approx 31 Sq. It. Vart., Tutbo-Film Processor, 304 SS [1] Like New 37.8 Sq. Fl. Luws Horiz, Thin-Film Dryer, 304/316L

(1) 40 Sq. FL Koniro Adjusi-O-Film, SS cons Ir., 20 HP 11) 45 Sq. Ft. Advisan flog Film, Heel. "C" 11) Approx S1 sq. It. Plaudio: Wiped film, 318 SS, 100/85 & FV 11) 80 Sq. Ft. Kontro Wiped Film Syst., S5 constr., FV/150 psl.

[1] UNUSED 86 69 II. Luwa thin film diyor horse 316 L welled parts, FV (nl., 150 pm sol plenm jkl [1] 141 Sq. Ft. Rodnoy Hunt Turbo-Film, 316 SS 15 psl inl., 35 psl jkl 40 HP XP

...TANKS-ALL TYPES & SIZES

BLENDERS

BLENDERS

800 Cu. Ft. Ikid. Dbl. Rbn., CS
Approx. 450 Cu. Ft. CS. 75HP
UNUSED 460 Cu. Ft. CS. 75HP
200 Cu. Ft. CS Dbl. Cone, 30 HP
200 Cu. Ft. KS 3165B Dbl. Cone
718 Cu. Ft. Pt. Y Twin Shell, 3165S
69.3 Cu. Ft. Marton Reddig. CS
69.3 Cu. Ft. Marton Reddig. CS
60 Cu. Ft. Sol 89 Pt., Twin Shell, w/Int. bar
60 Cu. Ft. Geneo Dbl. Cone, 3048S
30 Cu. Ft. Pt. Sol 88 Pt., Twin Shell, w/Int. bar
60 Cu. Ft. Robinson Dbl. Rbn.
10 Cu. Ft. Robinson Dbl. Rbn. CS
8 Cu. Ft. Robinson Dbl. Rbn. CS
8 Cu. Ft. WG Marton Se
D Cu. Ft. Geneo dbl. cone, CS. 1½HP
0 Cu. Ft. Geneo dbl. cone, CS. 1½HP
0 Cu. Ft. Geneo dbl. cone, CS. 1½HP
0 Cu. Ft. Hwene, CS. Dbl. Rbn.
Cu. Ft. Hwene, CS. Dbl. Rbn.
Cu. Ft. Bbl. Cone W/Rould-solids bar
Cu. Ft. Bb. Dbl. Cone W/Rould-solids bar
Cu. Ft. Pk. Twin Shelt, SS Constr., w/pln int. ber

RECENT **PURCHASES** 

Alfa-Laval Centrifuge, Model Propane Storage System 120,000 gal. Capacity Propane BOOOgsi Ch Ammonia Storaga
Taric 200 PSi

A gal grack table de Pingle
motion 20 Psi Jokta

Sparklar pressure jest Finera Storage System consisting of 2-60,000 Gal. Propage Tanks. Compressores, Pumpe

400 gal. G/L. Plaudier Vert de clever, 55 Pel 1750 gal. Reactor 316 SS 15 Pal Br Regio Bep Parks, wood and the state of th

PARTIAL LISTING ONLY

**FILTERS** 

axchanger.

datalis

**ATTRACTIVELY PRICED** 

1 - Approx. 51 Sq. Ft., Pfaudiar, Wtpsd Film

Evapor. 316 SS wettad

parte ASME Codad,.

Jacket rated 100 p6l

w/Internal vacuum.

Complata w/ftanga

mounted motor to

Pfaudler TW drive w/-

mechanical seal, lubri-

cator & Integral heat

Call today for more

Pressure Leaf 1-562 Sq. Ft., 31SELC, Horculas, 28 I-512 Sq. Ft., 31888, Niagara, 21

1-400 Sq. Ft. R/L Sparkler 1-327 Sq. Ft., 304SS, Ind. Filter, 11 Isavas 1-320 Sq. Ft. Durco 316 SS, 11 Laavas

1-259 Sq. F1. Pronto Mdl. #3289, 75 pelg 1-Approx. 208 Sq. Ft., SS, Sperklar,

1-200 Sq. Ft., SS, Harculos, Heriz. 1-191 Sq. Ft. Enzingar, SS, Vert., 78 psi 1-157.64 sq. Ft. Sparkler model 55-5-28, 318SS 1-150 Sq. Ft. Heriz., 12 Vert. Lsot 31655

1-135 Sq. Ft. NI, Bowser, Varl. 1-35 Sq. Ft. Hercules Medel 5, 316 SS.

**Rotary Vecuum** 

1-58.5 Sq. Ft. KS, Inconal 600 1-56.5 Sq. Ft. K-S, 316SS, flaxibelt

1-87.82 Sq. Ft. Fainc, SS wettad parts, apring diach., 56" dia. x 6' face drum 1-182 Sq. Ft. Dorr Oliver, 30488, maxibalt disch. 1–200 Sq. Ft. Elmoo, 31688, 8'x8' 4–250 Sq. Ft. D.O. 818L SS Precoat, 8'

x10', senit
1-250 Sq. Ft. K-S S16SS, coll disch.
1-300 Sq. Ft. Elmoo, S16SS wetted
parie, precoat type w/knife disch.,
10" die. x 10' drum, compit. w/control penel & aux. aquipmont
1-314 Sq. Ft. Elmoo, precoat disch.,
S16SS

1-400 Sq. Ft. Elmco, CS, Precoat 1–500 Sq. Ft. Elmco, 31698, belt diech. 1–3'x1' S1888, knife diech

NX214/314

-3'x1' Dorr Oliver, FRP w/receiver Nach H4 vao. pump, 10 HP 1-3'x 1' K-S comp. ays., 315 SS Flexbelt disch

MIXERS

4.5 Gai, Kneader Master Cont., 88 w/jkt.
5 Gai, AMK 30488 Joktol, Kneader Extruder
18 Gai, W.C., Readoo Sigme Blade Dbi, arm
25 gai, Readoo DBi, /Arm Sigme Blade jktd, 98
construction 18 H.P.
80 Gai, Hockmeyer Pony, 98 contects, 7.5 HP

RIGGING/DISMANTLING

DEMOLITION/ASBESTOS REMOVAL

WE ARE EXPERTS AT DISMANTLING

REERECTION, RIGGING DEMOLITION

AND ASBESTOS REMOVAL WITH TER-RIFIC REFERENCES BOTH NATIONALLY AND INTERNATIONALLY

CALL US TODAY FOR A QUOTATION

ж,

ON YOUR CURRENT NEEDS OR ADD US

TO YOUR BIDDERS LIST FOR ANY FU-TURE PROJECT (201) 390-9550

**GLASS...GLASS...GLASS** 

WE ARE GLASS SPECIALISTS WITH A TREMENDOUS INVENTORY FEA

TURING UNUSED, USED AND REG-

LASSED ITEMS. OUR SHOP PER-

SONNEL ARE FULLY TRAINED TO

REACTORS

4,000 Gal. Pfaudior, 100/90 psi, TW 1,000 Gal. Pfaudiar, 100&FV/90 psi,

4RW
1,000 Gal. Pfaudier, RA60 Soriaa, 100&
FV/90 pal, 4DW
1,000 Gal. Pfaudier, RA60 Serias, 100&
FV/90 pal, 4TW
800 Gal. SS clad, 60/60 pal
760 gal. DeDiatrick, Phila drive

500 Gal. Pfaudlar, 100&FV/85 pal, BH

oriva 75 Gal. Pfaudiar, 25 & FV/S5 pel, 2 HP 50 Gal. Ptlauder Sody-UNUSED, 28 FV/-100pel

4,000 Gal. 316SS, Atmos. /50 psl. withcolls

3,000 Gel. 34755 Alaw Knoz, 150/50 psi

2,500 Gal. 316L SS, 75/75 pal, 150 pai Int. colls

2000 Gsl. Noeter Autocisvs, 316L 2000

2,000 Gal. Dusanborg, 316 SS,15/35 &

FV Int., 50 ps! jkt. 1,790 Gal. 316SS No!to, 1487/50 ps!

1,500 Gsl. 3048S, 10 HP Lightnin

1,000 Gal. 304SS, 250/60 pal

1,000 Gal. 31888, 50/78 pal jkt

750 Gal. 31698, 78 & FV/50 pai 750 Gal. 80488, 50/60 pai

600 Gal. 31888, 3000psi, 10 HP 600 Gal. 89, 50 psi, 1.5 HP XP

500 Gal. 31688, 55 & FV/55 pel

 $\star\star\star$  SPECIAL OFFER  $\star\star\star$ 

1-UNUSED, never installed Krauss Maftel Turbo Tray Dryer, 29 trays, 9' 9''dia., 316 L SS, all other wotled

PRICED TO SELL

100 Gal. 318SS, 18/50 pai 100 Gal. 316ELC BS, 500/90 pal

"Portial Listing - Much Mora Inventory Gloss Lined Storage Tonks & Ports also Avaticato.

HANDLE GLASS.

Glass Lined

Stainless Steel

psi, FV int. colls

80 Gal. Hockmeyer Pony, SS contacts, 7.5 HP variapsed
100 Gal., SS, Sigma Blade, Joktd. 40 HP 500 libr Welex hi intensity, SS contact parts 200 gal. W-P CS dble srm Sigma blade, 20 HP 250 gel. AMK Knaedar Extrudar, Sigma Blades, CS constript, 40 paig, trough jkt.
500 Gal. S-W Rubber Cement, CS, 2-10 HP motors (2)
Urused 1000 Gal. Sankary 318SS B-K Dbl. Motion Change Cast 1003 FV/165 PSI, 125HP
Littleford Model FKM-600D, SS, W/choppers Littleford Model FKM-600D, SS, W/choppers Littleford Model FKM-2000, SS, W/choppers Protex Henchel 3.5 Cu. Ft. Mdl. 35 / SS, 85 Const. 7.Cu. Pt. 304SS Nactic Model MSX-70 Mtl. Cu. Ft. Neuta D-105, CS
15 HF Heckmeyer High Speed Disperser. Welding Eng. Model 2FV1Y2S Twin strew Extruder, SS, Contacts, 150 psi

PLUS LOTS - LOTS MORE

LICENSED ASBESTOS

MANY MORE ITEMS IN STOCK-CALL IDM TODAY!

NAN Int'l. Dismantling & Machinery Corp.
P.O. BOX 388 SOUTH RIVER N.J. 06882 (201) 390-9550

ALWAYS BUYING 8 SELLING SURPLUS PLANTS & EQUIPMENT 

(201)390-9550

TELEX:642-863

CHRICAL NAVABETING REPORTER

REMOVAL

CHEMICAL MARKETING REPORTER

Federal Equipment Company

8200 Bessemer Avenue - Cleveland, Ohio 44127 - 216-271-3500

September 1 1994



504248-Cleaver Srooke Mod, D-34 21,000 LB/HR water lube, 280 pel design #2 oil/gas fired, 1975. MUST MOVE — Price slashed. Cell Mike Cohen UNUSED CENTRIFUGES

21593-Sharples P5400 Senitary Centrifuges w/200 HP motor, 25 HP backdriva, gearbox, 5" pitch conveyor, CIP, control panal (2) LATE MODEL

CALL: Ken Kyte (312) 350-2200 **CENTRIFUGES** 

20827-Bird, 18"x24" steel, conical bowl. 20828-Bird, 24"x38" steel, con. bowl. gearbox. 20819-Bird, 24"x38", S/S, 18 degree, contour bowl. 20884-Bird 24"x60", H series, elsel w/motor. 20364-Bird 32"x 50", SS T318 contour, 78HP, 12883-Bird 36"x88" contour, 10 deg., T317 ELC. 20137-Alfa Laval, NX 418-B31-60, S16SS, gearbox. 17308-Dorr Oliver, 3049S, Merco M. 18L, 30 HP. 17308-DOT Oliver, 3043 S. Marco mol. 18L, 30 HP. 13565-Sharples, mol. P 600. gearbox, motor. 19767-Unused Sharples, 3 phase, P3000, 8/S, carbide. 20407-Sharples P2000 316SS, 20 HP drive motor. 19768-Unused Sharples P3000, 8/S carbide tiles, gear. 19768-Unused Sharptes PSOUU, 8/S carbide wes, gear. 21359-Sharples P3000 w/gearbox. 20686-Sharples P3000, 02:1 gearbox, S/S casting. 21725-Sharples, P3400, S/S, gearbox & motor. 19249-Sharples, P5400, 316/3178S, 200 HP, gearbox.

REACTORS

· Ca

20252-Unused Reactor, 800 gal., 30488-dimple jktd.
10198-Pfaudler, 800 gal., T-318 L 98, 56 P8I int/150 P8I.
20928-Brighton, 4000 gal., 318 S/8, 6\* die. x 7\*8\* et. side.
16475-Brighton, 4000 gal., 31688, vacuum.
20287-GH Hicks, 4000 gal., 31688, pipe col jkt.
20923-Richmod Enn. Reactor, 4600 col jkt. 20923-Richmord Eng. Reactor, 4600 gal., T318 stain/clad. Plauder 10,000 gal. reactors T318L, 100 psi ini, 180 psi. idler 10,000 gal, reactor TS1SL, 100 pel int., 200 pel jk1

TANKS-S/S

21131-Tank, 950gal, T304SB, 5'x6' dish bot, flal top, agit. 21283-Tank, 8/5 yert., 1200 gal., 5' dia.x6', flat top & bot. 17474-1000 gal., T316SS, 54" dia.x6'6", 8 HP agitator, 20651-Tank, SS, 6000 gal., agit., 12' dia. x 14'8" H. 20665-Tank, SS, 12000 gal., 12' dia. x 14', flat bottom,

open top, 17043-Jos Oat horz, tank, 30488, 16,000 gal., 12'6" dia, x 22 912" long, 1D PSI.

**DUST COLLECTORS** 21125-Fabri-fJet (dt.SOB-4B bin vent, 42 sq. ft. 16398-Mikre dust collector, 8/8, 63 sq. ft., mdt. 9-6-100,

21 153-EVO, bin vent, 72 sq. ft., S/S,0 HP 20253-Unused EVO pulse jet collector, mdl. 848F009C 21 192-JH Day mdl. RJ-1 8RJ36, 125 sq. ft., CS, S HP. 21222-Fabri-Jet, mol. SQ1 6-80, 101 sq. ft. 20398-Purise jel collector, "FlexKleen," mdi. 58CT24 AV II w/178 sq. ft., cloth. C. s.

21288-Mikro dust collector, 200 sq. n., 3/3. 20258-Unused EVO Corp. pulse jet dust collector, indi. 99BF030C, 350 sq. ft. 20255-Unused EVO Corp. dust collector, shaker type, mdi.

SCREENS

21203-Sprout Waldron after, 010, 8 decks. 21160-Sprout Waldron, 010, 1 HP, 10 decks, S/S cont. 21187-Sprout Waldron, 010, 2HP, 10 decks, S/S cont.



1568-Howe, 116 cu. ft., sanitary 8/8, double spiral ribbort. 0983-Birong Scott blender, 130 cu. ft., 9048S, 25 XP gear motor. 21124-Ribbon Blender, 30488 [kt., 160 ct. ft., 30 H/ 21124-Ribbon Blender, 30488 [kt., 160 ct. ft., 30 H/ May Fluid Bed Dryer, T30488, Sanitary, 49" Gia, a 10'9" Long. 84.0 Sq. Fs., STEAM HEATED, Call Sleva (312) 350-2209 20614-Unused JH Day ribbon, 8/5 270 cu. ft., 20 HP. 21114-HH Day ribbon blender, 8/8 clad, 75 HP, 450 ci.ft.

used 15,00 Gel. Vert. T304 SS Tanka 13' Dia x 14' H, Dish Sottom, Fist Top 4" CSO. Skirt Mounting, (4)

FILTER-ROTARY VAC.

15828-FE,inc. 36" dia.x 12", 8/8, string disc., 1/2 HP. 17477-FE, inc., S' dia.x 5", T3168S, belt disc., vac pump 11177-Dorr Ofiver S/S, 6' dia. x St. 11653-Oliver T-916SS, precoal 5'S"x8'. 18491-K.6. flexibelt, 6' die. x 9' lace, 316S6. 18392-Eimoo belt filter, 8 x 10", steel drum, w/Nash pump 5827-Ametek, 8'dle.x14'0" lace, mexi-bell, S/S. 17936-Eimco, \$1688, 10' dia. x 14', knife diacherga. 17936-Ermco, \$1688, 10" dia. x 14", krivte diacrerge. 17263-Impcobe# fiter, 12" dia. x 12", 30488, Nash vacur 20201-K. 8. T304, vacuum fiter, 12" die. x 14", 30488. 20323-Dorr Oliver I 1"6" x 16" lace, 8/S cont. parts. 1486-Elmco 10'x1D'rotary vac. filter.

DRYER-ROTARY VAC.

844-Bathlehem Porcupine Processor/Polyester Chip Crystalizer 30" dis. x 18" long, T304 SS, jkt 20 HP (8). FILTER PRESSES

848-Shriver P&F filter press, 12"x12" closed delivery, 23 chambers. 20534-Sperry Filter Press, 30", slumm. 20539-Sperry filter press 30", 35 Aluminum plates, 857 sq. 15370-Shriver 32" x 32", polypropylene, 27 plates, ratchel

closing. 10929-Shriver ALP, plate & frame, 18 S8" x 38", S/S recassed plates. 20078-Sperry filler press, \$6", cast fron plates, closed deliv

182-Independent filter press, 42" x 42", polypropylene 4 sys closed, 34 chambers. 20550-Sperry fitter press, 42" Ehcl closer, 41 alum. plates. CENT-BASKET VERT.

21408-Delaval 22"x18" perf. basket hyd. drive. 15810-Delaval Mark III, perf. basket, 40"x24", \$16SS, 30 18446-Sherples Studge-Pak, 8P-5500, 40"x24" basket

centrifuge.

21/72-Dricknutschs (Rosemund Type) Pressurs batch Pitter 117" Die., 75 Sq. Ft., jacketed, agil. 15 HP, Sids Dischargs.. Call Herb Landy (312) 350-2208

17654-AMK 25 gal. Mixturder, Sigma, ST 7.5 HP. 18298-J.H. O ay 25 gal. Dispersion, 25 HP vari main, 10 HP

20996-AMK 30 gal. 6/8, jkt. Sigma, 7.0 HP Main, 8 HP

screw. 21334-Rosa 40 gel., 8/6 hot oll jkt., Sigma 6" disch. screw.

21334-Rosa 40 gal., 8/S hot oli jkt., Sigma 6" disch. scraw.
18329-AMK 50 gal. ST, jkt., Sigma, 10" disch. scraw.
18421-AMK 70 gal. ST, jkt., Sigma, 10" disch. scraw.
17136-AMK 120 gal., ST Sigma, 11.0" scraw.
14832-AMK 150 gal., s/S, Sigma 10 HP main, 10 HP scraw.
19494-AMK 150 gal., s/S Sigma, 60 HP main, 10 HP scraw.
20118-AMK 180 gal., ST, Sigma, 10 HP/10 HP
503627-New Aaron 300 gal., 730459, mix extruder, Sigma, pt., up to 200 HP main, 70 HP hyd. scraw.
STILL INSTALLEO... CALL NOW!

21350-B.P. 500 gel. Sigma steel, jkt.

ord FKM 4200D, 8/8, 87 cu. ft. JKT.

25 speed, 150 HP, Hyd. tilt

503755-Littleford, FKM 6000, 8S lecketed, 25 MP. 20754-Littleford, FKM 30000 65 CF, 9/8, full jecket. 19214-New Prow Milter, 80 ou. ft. 34788, lecket, 1001

2012-Fibbon Blender, 8/S, 10 cu. ft., kt. 88, 150 psl. 2012-Read ribbon blender, 14.7 cu. ft. 30488, 8 Hp. 2018-Read ribbon blender, 14.7 cu. ft. 30488, 8 Hp. 20189-Robinson, 25 cu. ft., 8/S, jacket, 10 Hp. 2085-int 34 cu. ft. 8/S dbl. fibbon, 8 Hp. (4) 20212-Hasa ribbon, 36 cu. ft., 8/S, 15 Hp. 19266-Ribbon Mix 80 cu. ft. 7304 88, 5 Hp. (4) 19568-Howe, 116 cu. ft. anithary 8/S double indicated in

MIXERS - PLOW

MIXER RIBBON

MIXER/EXTRUDER

"UNUSED" EQUIPMENT

ALL EQUIPMENT STORED IN WAREHOUSE, ON ORIGINAL SKIDS

21717-Bins, 8/3, 87 cu.ft., 500 gal., 58"dia [5] 21711-Bins, 30498, 850 cu.ft., 500 gal., 66"dia. [10] 21628-Bins, 304LSB, 1300 CF,6700 gal., 11'6", S-B. [2] 21718-Biose, C/S, 50'dia.x 50"H. [4] 21634-Biower, Rocte Rotary Lobe, mod.FTB 3505J, 5 HP, unitized, elsencara. [4] 21635-Biower, Roote Rotary Lobe, mod.FTB2506J, 5 HP, 8llancera. [2]

Silancers. [2) 2163e-Blower, Rocia Rolary Lobs, mod.3555J, 7.5 HP,

LIQUIDATION SALE AT BARGAIN PRICES

LOCATION: SPRING GROVE, SOUTH CAROLINA 21721-Diverier Valves, floironics, 4", aluminum, si ou

21723-Diverter Valves, flotronics, 2", 5/8, sit opening 21724-Diverter Valves, flotronics, 8", atumimum, irige

21724-Diverter valves, Hotronica, c., auminion, et que et d. [13] 21734-Diverter Valves, Rotronica, 8", 8-8. [2] 21735-Diverter Valves, Rotronica, 4", aluminum (6) 21738-Diverter Valves, Rotronica, 12", aluminum (7) operated. 21547-Overairom Conveyor, vibrating, 24°W 2201, 19 21544-Pug Mill, 3045S, 285 cu.ll., twin paddis, twister

21847-Overstrom Conveyor, vibrating, 24"W x201, 37
21844-Pug Mill, 3048S, 285 cu.l.t., twin paddis, finishing 12893-Berroul Weldrom Alrmix Blendar, 360 cu.it., 1988
21895-Automated Bagging System, twin sores links 6"dis., wisciss, bag do earstor, programmable cosinik, 21896-Semi Automatic Begging system, twin sores links, mod.D 617, hot seal bag closure.
21894-Pallette ing conveying system, transfer commod.D 617, hot seal bag closure.
21894-Pallette ing conveying system, transfer commod.D 617, hot seal bag closure.
21883-Mikro mod.41h & 4MP, 125 11P, (20)
21700-Tiplex Pump, 50 DPM, 15D0 pat, 50 HF 21701-Pasbody Sump Pump, 100 HP, [3]
21701-Pasbody Sump Pump, 100 HP, [3]
21702-Gorman Rupp, 75 GPM, 3 HP, [3]
21704-Button Steet Concentrator, 25 HP blows:
21705-Sutton Steet MD AM-100 Beparetor, blows, NK, 21705-Sutton Steet MD AM-100 Beparetor, blows, NK, 21705-Sutton Steet MD AM-100 Beparetor, blows, NK, 21705-Sutton Steet MD AM-100 Beparetor, blows, NK, 21705-Sutton Steet MD AM-100 Beparetor, blows, NK, 21705-Sutton Steet MD AM-100 Beparetor, blows, NK, 21705-Sutton Steet MD AM-100 Beparetor, blows, NK, 21705-Button Steet MD AM-100 Beparetor, blows, NK, 21705-But

cable, 21692-81e01rio cable, 1 real 207', 850-8133563 5 KY amile

ceble, 21890-"Dis pozapsk" Compactor, mod. D800, fresh billeri-21667-Mikro Mist Lubrication System, two oil pumps of

arbor-shirto min salahina 12 pellete ph normalite. 以 21897-Shrink Wrap Machina 12 pellete ph normalite.以 21865-Lawson Caniral Vacuum Clasnin System, circles tools 6 attachments.
21865-Lawson Central Vacuum clasning System, circles tools 6 attachments.
UNUSED LATE MODEL EQUIPMENT

AT LOW, LOW PRICES CALL NOW (312) 350-2200

PLANT LIQUIDATION: CELLULOSE FIBER BUY FROM CHARLESTON S.C. LOCATION AND SAVE

2114-JH Day elibbon blander, 66 cied, 75 HP, 480 cu.ft., 8/5 21237-8hrink wrap oven, heat controls, vert. seleing unit. 21139-filtzmill D1608, 8/h D6-4156, 7,6 HP. 21230-8filtco Mill, 76 HP vari speed drive, (2) 21172-8ins, 39438, 391% 391% 37 straide, 26 cu.ft. (2) 21236-8ins, 39438, 391% 391% 30 come, 8" cuitlet, 36 cu.ft. (2) 21236-8ins, 58,44% 41% 30 come, 8" cuitlet, 36 cu.ft. (2) 212314-8in, C8, 44% 44% 40"H, 85 cu.ft. (3) 21214-8in, C8, 44% 44H, 90 cu.ft. 21233-8in, C8, 474% 44H, 90 cu.ft. 21233-8in, C8, 474% 474, 60 cu.ft. 2123-8in, C8, 7177 30", 90 cu.ft. 2123-8in, C8, 7177 30", 800 cu.ft. 2123-8in, C8, 7177 30", 800 cu.ft. 2123-8in, C8, 6787 47 147 147 229 cu.ft., 1600 gsf. 2124-Balley blowar, 381da, 3 HP. 21278-Blower, Cellocts, FRP 4060-8A, mdi.CLMR18, 7 1/2 21178-Unused blower, Suterballe and Balley and Balley blower, Suterballe and Balley and Balley Blower, Suterballe and Balley

HR
21175-Unused blower, Sutorbullt, mdl.SHV-B, S/N 67524.
21227-Buffelo Blower mdl. 65, 25 HR (2)
21301-Buferbullt Blower, mdl.SHV-B, 25 HP TSFC. (2)
21394-Buffelo Blower, size 7, 8/3, 60 HR (2)
21394-Cleaver rocks Boller, 25 HP, ges, 150 pel.
2131F-Cleaver rocks Boller, 25 HP, ges, 150 pel.
2132-Dust Collector, Febru-let mid.SG9-48 bin vant,42
aq.ft., 1 HP(2)

aqin, 1 HP(2)
21110-Bin vents, 88 aqin, Premiar Filtair, 30488. (2)
21153-EVO Dust Collector, bin vent, 72 aqin, 578, 8 HP (2)
21143-Dust Collector, 80 aqin, vent, CS, 10 HP blow.
21193-Jih Day dust collector mid.RJ-18RJ-38,128 aqin, CS,
1224-Pebri-Jet dust collector mid.RJ-18RJ-38,128 aqin, CS,
21223-Pebri-Jet dust collector mid.RJ-18RJ-38,128 aqin, CS,
21223-Piliarita dust collector, 225 aqin, 878, type 48-6,
21233-Piliarita filtar, cast Imdi.910343, 1991, 300 pel 2008 (2)
21131-Fiot Air Purnace, gas fired, Kozma, 41/2\*18\*188\*14, 10
21231-Fiot Air Purnace, gas, Kozma, 45/2\*187, 10HR
21232-Betance, O-Haus Mojerium distoration.

10 HR 21262-Beisnos, O-Haus Moisture determinasi 21265-Bione sink, 114\*, 22\*22\*77\*desa. SEVERAL SCREW CONVEYORS AND MANY OTHER ITEMS ALL AT BARGAIN PRICES

81205-Mikro Pulveriser, 100 HP, water cooled. (4)
21213-Mikro Pulverizer, 4808, 100 HP.
2146-Mikro Pulverizer, 126 HR (4)
21160-Mikro Pulverizer, 126 HR (4)
21160-Mikro Pulverizer, 126 HR (4)
21117-Delumper, 05, 24"dia, x 14"W, 2 HP drivs. (5)
21122-Entoleter, type 8 ID, series 14, 8 HP drivs. (5)
21130-Pulvaeron Sirong Scott, md. 36-B, 36"dia; 164 HR-veriapeed, [2]

wrisped, [2]
21135-Prauder Reactor, 1900 gal., 31883, Rd.100 psl.
21286-Toledo Scele Platform dial, 1900 in dial x 11.
21276-Ruxse (f. Plnax 4win turbo sleve mechini, and A. Sproul Waldron sitter, Dio, gyro which HPI and Rys.
21150-Sprout Waldron siter, Dio, 1 HB, 16 decks, and tasta, (3)

21190-Sprout Weldron after, D10, 1 HP, 10 dects, 88.99 21197-Sproul Weldron after, D10, 2 HP, 10 dects, 88.99 21199-Sproul Weldron after, D10, 2 HP, 8 states and contects, (2) 21203-Sprout Weldron after, D10, 3/4 HP, 8 states

com. 21280-Rotap Sleve Sheker, 10 screens. 21134-Borout pedestal effters, portable, 30485, 14 im. 21185-Sweec seperator, 30" mdl. L390C465, 12 in. 21223-Aerodyne Oust Cyclone, mdl. 300081, 40 in. 21223-Aerodyne Oust Cyclone, mdl. 300 211401 -Aerodyne separato, mid.5V4500, vert. system. 21141-Cyclone, 288, 8 clea. 20., 4 t. side, 18' com. 21. 4 21154-Cyclone, 39488, 8' clea. 28', 8 t. side (2). 21158-Wei Scrubber, P/K WH-900 verturi, 39488, 50 (2). 21290-7ank, vert. 70 gel., 8/8, 2'clia. 13', open tot.18' bot sehelet. bot aghator. 2129-7ana, 8/8, 70 gal., 8'dia.x 30"H, hings 100, 150 oct. 21959-Teink, 8/8, 100 gal., 30"dle.; 30", 3/4 [16] specto. 8118-Teink, verl., 230 gal., 8/8, 36"dle.; 34" joine of the 21281-Teink, verl., 230 gal., 8/8, 3 dle.; 3 dl.; 36" skell stell bottom.

bottom. 2101-Tenk, 960 gel, 790488, grain of district total section. 21243-Tenk, 6/8 vert., 1200 gel, 8'dis. 6' fal grant bottom. 3157-Fober Dispose Pak, md.D. 500, Linead couled ten, baller 2'x 2'(2)

BUY FROM CALUMET CITY, ILLINOIS LOCATION LARGE POLYSTYRENE PLANT LIQUIDATION SALE

21904-Sins, 450 cu. ft., C/S, epoxy lined, (6) 21905-Bins, 500 cu. ft., C/S, epoxy lined, flet top, conical

bottom. (4) 21881-8ins, 450 cu. it., C/S, spoxy lined. (6) 21896-Tenk, 850 gal. vert. cesi ter epoxy lined. 21915-Goulds, C/S tuctine pump, 200 HP. (2) 21928-IR Centrilugal pump mod. 3x7WLN, S/S.

21879-Sweco 80" Sifter.

in the same

21827-IR Centrilugal pump mpd. 1.5x0WN, 6/6
21929-IR Centrilugal pump mpd. 3x7W, 10 HP (2)
21830-IR Centrilugal pump mpd. 3x7W etcel, 15 HP (2)
21818-Union Pump-Inlike, C/S, mpd. 4x8x6.5 VCK, 40 HP.
21813-Worthingtox cent. pump, S&3, 2 HP. (4)
21912-Uxion pump-Inlike, 6/S, 7.5 HP (2)
21918-Worthington cent. pump, C/6 mpd. 3x29 SPO (2)
21817-Ingersol Rend pump, In-line C/S. (2)
21878-Roman Bluon pump, In-line (75, (2))

21878-09rmsn Rupp pump, centrifugel, mod. 02EZ. [2] 21939-Cherget Pump #4, 10 HP. (4) 21870-Welex extruder 9", 30:1 L/D, 600 HP.

21883-Bird Cantrifuge, 32x50, 80:1 gaerbox

21883-Bird Cantinuge, 32x30, 40: 1 gashbox 21971-Prodex extruder 8", 30:1 L/D ratio, 900 HP. 21920-Modern Welding Tank, 4800 gal, hortz. rubber lined. 21910-Welex sxtruder 8", 30:1 L/D ratio, 700 HP. 21874-Weler bath, 3/S, portable. (4) 21879-Consir petiedzer, 5/S, mod. 1024, 40 HP. (2) 21902-Worthington compressor, mod. 488-2, vert. 125 psi. 21925-Permulti Water Softner, mod. 8042, on skid. 21865-Buitelo Blower, mod. 45-3CB, 76 HP. (3) 21692-Buitelo Blower, size 30, C/S, 10 HP (3) 21880-Suter Bill Slower, C/S, 40 HP. (4)



21896-Pfaudier Reactor, 10,000 gel.

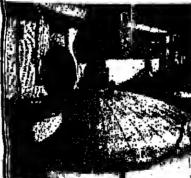
11895-Plaudier Reactor, 10,000 gal. 316L SS cled, 60 HP. I Nas-Paudar Reactor, 15,000 get. of 19. SS dimple (kt. 12)
1800-Paudar Reactor, 15,000 get. 319L SS dimple (kt. 12)
1800-Paudar Reactor, 1,500 get., 319L SS dimple (kt. 12)
1800-Paudar Reactor, 12,000 get. vert., solid 319L SS.
1800-Heid Arts Corp. vessel, 17,000 get. vert. 317L SS. (2)
1801-Heid Arts Corp. vessel, 17,000 get. vert. 317L SS. (2) # 2-Terk, 60,000 gal. vert. C/6 epoxy, fiel bot. conicet

HE-Tank, 840 gal., flat top & bottom.



21897-Tenks 17,000 gel. & 12,000 gal. 211(1-Terk, 54000 get, vert, C/S epoxy coeled fiel top/bot

11123-Smittee med. 7520, exchanger, 7304 SS 11123-Smittee med. 7412, heat exchanger, steel (18) 11123-Smittee med. 7412, heat exchanger, steel (2) 11133-Smittee med. 7512, heat exchanger, steel 11133-Smittee med. 7512, heat exchanger, steel 11133-Smittee med. 7412, heat exchanger, steel 11133-Smittee med. 7412, heat exchanger, steel 11133-Smittee med. 7412, heat exchanger, steel hung RSAA (3) 1955-Setifico mod. 7612, exchanger, sleet, type BBAA (3) 21924-Perfex mod. 8670-132, 80 sq. ft., 150 psi. (5)



21698-Brighton Corp. 12,000 gsl. vessel. 1971-Specialer Miler, 352 sq. ft. C/S, mod. YR-32-32. (2) 1982-840, 32x 50 centrifuge, 80:1 gestbox. (4) 1920 - Laure St. Cantrifuga, 80: 1 gearbox. (4) 1920 - Laure St. Mod. K8018S, 8/8, 1HP 1921 - State St. Mod. L. S60886, 2.5 HP. 1941 - Laure St. Cantridge S

Mil-Kalers, C/6 steam, type BNF 2420 (6)

Alth-Kalers, C/6 steam, type BNF 2420 (6)

& dish top. (3)

484-Cathop. (3) 2166\_Croione (Edw-Renneberg) 3'8" die. x 4' (3) 2160\_Kabox feeder, twin screw valumetric, 8/8. (4)



21906-EGW Renneburg ret. dryer 21/14-Floronics bin vent, filters, 122 sq. ft., 12 begs. 24/75-Bini, 176 cu. ft., 8/8, cone bottom flat top. (4)

and miles Sugar Fig.

21888-Strong Scott Rib Blender 21922-Butlalo blower, type 40-3CS, 40 HP. (4) 21906-Buffalo exhaust fan, size 34, typi B, 15 HP. 21694-Buffalo blower, mod. 45-3CS, 75 HP. (3) 21693-Environmeting scrubber, mod. ASS-14000

AARON BUYS COMPLETE PLANTS FOR LIQUIDATION CALL LES OR JERRY COHEN TODAY!

EQUIPMENT COMPANY (312) 350-2200

CALL THE M-TEAM FOR ALL OF YOUR EQUIPMENT NEEDS! CALL FOR OUR NEW SUMMER CATALOG!

**BLENDERS & MIXERS** 

-150 gai. Signe Blade Mixer; CS, jktd.
-Readco Signe Blade Mixer; CS, jktd.
-Readco Signe Blade Mixer 10 gal. 85 Dael Level (Like New)
-Readco 0 gal. SS jktd. vec. mixer 0 HP
-Rose 10 gai. Piznetary Mixer 0 S
-Saker Perkins 300 gal. Signe Blade jktd. vec. mixer
-Readco 3 gal. 88 Signe mixer, jktd.
-Patterson Kelly 1800 cu. ft. CS blander 70 HP
-Paul O. Abbe 80 cu. ft. 85/earlf. jktd. vac. blex der 50 HP
-Neula Mixer 70 cu. ft. 85 i O HP
-Davies 100 cu. ft. 85 i O HP
-Davies 100 cu. ft. 85 i O HP -Devine 100 ou.ft. Dbie Cons Siender, C/8 -Baker Perkins 150 gel. C/8 jktd vec. flushe

CENTRIFUGES -Sird Centrituge CS 40" x 80" Solid Bowl widriws Selid Centrillogo CS 18" 28" Centrur Bowl (UNUS -Bird 38" x 50" 34758 Centrur Bowl -Sherptes 12" 38 Lab Mods/Brighton Lab -Sherptes P-5000 decenter S8 100 HP

DRYERS

-D &W Rotary vsc. dryer, 310 88, 2'x 7'
-Oemco 88 1 cu. ft. dbie. cone vsc. dryer
-Petterson-Kelly 8 cu. it. twin shell vsc dry Stokes vac shell dryers 40.0 sq.ft. (7) Pfeudior 2.0 cu.ft. G/L dbl. cons vac. drye -Preudice 2.0 cu.m. G/L dbl. cone vac. dryer
-Standerd Herney 4"x30" Retary dryer S\$
-Sowax Sprey Dryers 7"/2" & 5" SS
-Aerometic fulld bed S.S. dryer Model 160ST 20
-Pattersox-Kelley 0 cu.ft. SS Conleal Vac 0 ryer
-Stokes 0"x30" Retary Vac Dryer, Jktd, SS
-Gemco dbl. cone vac dryer 10 cu. ft. SS
-Reitz rotary vac. dryer SS 3"x5" (complete system
-Patterson Kelley Twin Shell vac. dryer 78 cu. ft.

**FILTERS** FILTERS
-Elmoo 4x12 Bell Filter
-Sparkler Filter Mol # 10-0-4 S8 jkt./ 33D12/ S5 8-0
-U.S. Autojet filter 8S 00 eq. ft.
-Griel 12" S5 liter press
-Hercules Filter 100 eq. ft. S10 S8
-Sird (Plennevia) Filter S8, 12" wide x 17' long
-Sporry 42" Plypro Filter Press 4S Chambers
-Shriver 30" ALP 310-S8, 41,48 Chembem (2)

Evirex 88 Rotery filtem 0 = 0 **GRINDERS & MILLS** -Pettersox steel |kid ball mili |0) -Ross S-roll mili 4½ s 10" -Premier Colicid mili Mdf. KBIF 40HP 31088 -Fitxmili Mdi. No. D-6/DSAO/12 30HP S8 Simpeon Mueller 6"a5" size 2 VD mixer 20 HP

**NEW ARRIVALS** -7000 gal. \$10 98 mix tenk 30 psi egil. (3) -J.H. Day 300 gal. Sigma mixer vac. jktd. 50 HP (3)

-Hanschel high-intensity mixer Model FM 500 14 cu. ft. 68 [ktd. w/aftercooler (complete system)

-Brighton Solvent recisiming etili & evaporator 100 gsl. each dimple jktd 318 58/senit -Patterson Kelley Twin Shotl 1 cu. (). vsc. processor 85 Patieron Keley Twin Shoti 1 cu. ft. vac. process
- Alpina Salve Model # A-32-100 LS
- Jelfrey Fuld Bed Dryer
- 300 gal. SS Dispemion Tank (50)
- 800 gal. SI 50 S Reactor
- Fitzpatrick Fluid Bed Dryer SS Model # 78 Lab
- Reitz disintegator SS 8 H.P. 361 R.P.M.
- Autoriave 200 gal. SS 110/350

-Fuada Filler 4' dia., 58, jktd. w/20 HP Drive Aeromatic Fluid Bed Dryer Lab Model #ST-16 -Aeromatic Spray Dryer Leb -Colloid Mill 0 HP SS -Strong Scott Rotary Vac Dryer, SS, 3x12 -SS Kettles 490, 300, 200, 100 (25)

Saker Perkins 100 gal. CS jktd. Sigms Blade Meer 500 gal. SS jktd. sgit. resetter low pressure (2) Thermoscrew 6" x 10"
-Artisex 1 sq. it wiped 6 im SS complete eyetem

Lightnin mixers 1/2 HP w/shafts & props (20) NEW

-Ross 16 gal. SS ktd. mlxtrudor 71/2 HP Mdl. ANK 10 -Micro Atomizer 89 SHP XP Mdl. #SMA RIBBON BLENDER

-J.H. Osy 54 cu. ft. Ribbon Blaxder (2) -Abbe 40 cu. ft. 88 clad ribbon blexde -Strong-Scott 200 cu.ft. C5 ribbon blender -J.H. Day 40 cu.ft. Ribbon Blender, 8/8 (3)

PRESSURE LEAF FILTERS

-760 sq.ft. U.S. Autojet, Mdl #750, 610 SS

-Pronte Piter 93 30" Die, 459 pst
-industrial Filter 100 sq.ft. Type 122 ID S1 Model OMD
-Enxixger leel litter SS 380 sq.J.

REACTORS -4000 gal.310 89 reactor w/pips coli (4)
Pliauder 2000 gal. |ktd reactor 150 pel/7ii psl
-Norweik 3000 & 750 gal. 85 reactor dimplo |ktd FV/80
-2000 gal. 85 mactor 80/50 psi
-Plauder 200 gal. 85 reactor
-Plauder 200 gal. 98 reactor
-Plauder 200 gal. 98 reactor
-Downing ton 1500 gel. Monet Clad reactor 56/70 psi
-Glascoto 3008 gel G/L Reactor, 80/100 psi
-13,500 gal. 304 Elc Dim., Jktd. Reactor, 30/100 psi
-Plauder 500 gal. G/L |ktd. vac. reactor

J.Little Mercer Co., Inc. 254 Hornbine Rd., Rehoboth, MA 02769 617-679-1901

CALL JOB DESANTIO

Westfelie Model 88-60 88 Desludger (1977) Bird 40x50 Hertz. Solid Bowl 318 LSS 114:1 Sird 36"x 72" hortz. Solid Sowi Steel

KRAUSE-MAFEI 18.5" pusher \$/8 (rebu5t) SHARPLES T-1600 46" x30" Auto 8/8 (2) SHARPLES AS-18, 16V SS Clarifler (Rb PIR B cu.ft. If LIQ-80L Processor
Spray Dryer, Bowen 30" lab, Niro 45 uniny 5/5
Sowan 4' 6" # 2 Tower Bpray Oryer 5/5 gas
Abbe 6 cu. it. 5/5 dbl. cone w/drive

P/K 10, cu.ft. Tw. Sh. S/S W/L.S. Ber B/P 6 gal. Sil. Dbl. Arm ikt. 3 H.P. 100 gal. J.H. Day Pony Mixer steel w/can. J.H. Day 38 au, ft. St. Neute 3 H.P. B/P 50 gal, Stl. D/ARM Mixer ikt. W/Drive 12) Vrieco 100 cu. ft. S/S Neute Mixers

P.O. Box 345 CMR FL Washington, PA 28034 Teles 6714838 VIDEX UV FILTERS

FEINC 2x3, 5x7, 8/8 Rot. Vac. String SPARKLER 469 eq.ft. 8/8 Horiz. tank earl. SPARKLER 469 eq.ft. 8/8 Horiz, terik esril.
Sperry 38x35 poly press 75 chembers
35,50,150,300 eq.ft. Press Leat 8/8 & STL
12", 18", 24", 42", P/F Press e C.I. poly or S/8
Niegars 342 Sq.Ft. Filter 88 hor, terik
4'x20' Straight Line Filter 85 7.6HP wiscosts.

2000 Gel. Pfaudier G/L Reactor 16 HF egit & Estile
SHARPLES Mark 3 14" S/S perf. AutobasketSharples P-3400 SS horiz, Solid bo wi
M.G. Homog, 200-M5, 8000 PSI
Skmpson 3FS/S Jkt. Mix Muller
8/8 TANKS 6000, 12000, 18000, 29,000 gel.

Sknpson 3F5/8 Jkt. Mix Muller 8/8 TANK8 8000, 12000, 18000, 29,000 gel. Fitz, D-6 MW Jkt. Chember, 7 HP 300 G kt. 85 Groen kettle (2) 12,000 Gel. FRP Yert. TANK8

fire-Puly. 1 5H 8/8 5HP w/screw feed. WE HAVE MANY MORE ITEMS - LET US KNOW WHAT YOU NEED

SPECIALS

Hull 72, Sq. Ft. Lybphillizer Stoppering
Hull 950 Sq. Ft. S6 Vec. Shelf Dryers
Weetbald centifuges SAHN 15007 A SAHR 15037
Chemapoe 18,000 gal. S6 temperiter agit. 120 HP
EP 100 gal. 16 VM Sigma Mays 30HP
Cates S6 mixer 8045 3 Vari
-Sergent S6 spron dryer 4 1220\*,
Reymond 2056 Haide mile (2)
Enter 37 ALP Rise 218 S8 46 Chimbers, pinks shifters, lydrauto (3)
Change Can S6 Vac. St. mixer with (2) 1000 gal. WC kettless
125 HPVD prussed
WAP Mixer-Extrader Continua 120 200 HP
MAP Mixer-Extrader Continua 120 200 HP FB 24"x56" 4-ros FB 6 roll mill 60" & 84" FB 6 roll mill 60" & 84" Renbury millers # 3 A, 2 D, & #11 D

MIXERS Ribbon Blenders BB, Jkt., 30 8 200 cu. ft. Ribbon Slenders 172, 6, 17.5, 60 8:215 civ. ft. Attentic reasons are a series of the part

PS Sentiury (states of 1, \$0, \$ \$ 110)

BAKER PERKINS JKT. MIXERS

To get depend potton 400 (P)

to get depend of 10, EMT. Inverse plate 50 (M)

to get depend of 10, EMT.

to get depe

CHOICE—PURCHASE

Day Nauta MEX 980 jkt., 40 8 SHP
Strong Scott 30 cu. ft. BS ribbon blender 50 pal jkt.
Holoffile 83 dryer-chiller Model 0 1818-5
Rex 30"x23" 88 field Sed Dryer
Rochey Hunt wiped film evap. #6, 120 sq. ft.
2500 gal. reactor \$1838, 75 pala Van. / 180 pel jkt Nal. R
egistor 50/9

Gaufin 88 homogetizers MC18, MP 188MC 45
300 HP DC-SCR Drive G-120 SPM
Ricks 8 TeT-4 jablet pressée hoke 2 TST-4 tablet presses table 38 2 cu. ff. confeel vsc. dryer strier 100 ten Preon Water Chiller

REACTORS-TANKS 2,000 gal. 42 reactors 160 pal. lkt. agit. (2) 1,000 gal. 82 reactors 160 pal. lkt., 4git. (2) Plaucier 100 & 800 gal Cyf. reactors 2,160 gal. 8.8. 100 pal 8 kg\* (4) ,50,000 gal. 8.8. lkt., 4git. (10)

EVAP .- DRY-CENTRIFUGE

GENETIAL

Reft: Prebreaker 900 NP SCR Drive
IR compressor 1000 ofm, 100 pai 200 IP
Resymond 12" screen mil 6HP
ROT-VAC, Pater 10"x18" 2"x2", 4"x8" a 3"x8"
YORK Turbomaster 7000 Ton Reft;
STOKER Model 440 4 284 Powder Press



equipment equities corporation 866 UNITED NATIONS PLAZA NEW YORK, N.Y. 10017 (212) 688-8800 CABLE: REQUESTS NY

CHEMICAL MARKETING REPORTER

CHEMICAL MARKETING REPORTER

September 1- Test

# PIETRIRY SAIVES YOU TITINE & INONIEY ... The child is the printent All Three Ringling Principal Violation Language in Devalures ... [Placeter 4 (2042)) / 167-1600

KETTLES-HEACTORS, SS

30,000 gal. 304SS fermentors, 14' x 24', 25 pel/vac. colle, 200 HP agit. (4)
5,000 gal. 304SS, atm. Int., 75 pel jkt., agft.
4,100 gal. 304SS kettle, 16 pel jkt., 6 HP agit.
3,500 gal. 316SS kettle, 20 pel jkt., 7½ HP agit. (2)
2,500 gal. 304SS reactor, 76 pel/FV int., 180 pel jkt.
1,500 gal. 304SS reactor, 16 pel int., 25 pel jkt., 5 HP xgit.
900 gal. 304SS reactor, 76 pel jr y int., 150 pel jkt., xgit.
600 gal. 304SS reactor, 76 pel jr y int., 150 pel jkt., xgit.
600 gal. 304SS reactor, 75 pel jr y int., 50 pel jkt., 5 HP agit.
300 gal. 304SS reactor, 75 pel jr y int., 80 pel jkt., 5 HP agit.
300 gal. 316SS and 304SS reactor and keitles from 8 gallon to 400 gallon... call for 5et.

#### BIG PFAUDLER 31655 REACTORS

(3) 15,000 gal. Plaudier, 31655, 12'6"x 19, 100 ppl, 200 psl jkt, Agll, (4) 1D,000 gal. Pfaudlor, 316SS, 11'0"x 12'3", 100 psl, 160 psl, jkt. Agit.

# IN ACTION IS AN ASSES

2 gal. Pfaudler, 750 pai/FV, 700 pai jkt.
20 gal. Pfaudler, 35 pai, 100 pai jkt. agit. (2)
30 gal. Pfaudler, jkid.
50 gal. Pfaudler, 25 pai, 100 pai jkt. agit. (2)
100 gal. Pfaudler, 25 pai, 90 pai jkt. agit. 1975
100 gal. Pfaudler, 25 pai/yac., 90 pai jkt. agit.
150 gal. Pfaudler, 25 pai/yac., 90 pai jkt. agit.
300 gal. Glascote, 25 pai/yac., 90 pai jkt., sgit.
300 gal. Glascote, 25 pai/yac., 90 pai jkt., 5 HP agit.
600 gal. DaDiatrich, 66 pai/yac., 105 pai jkt., 5 HP agit.
750 gal. Pfaudler, 25 pai, 85 pai jkt., 5 HP agit.
1,000 gal. Pfaudler, 25 pai, 90 pai jkt., 10 HP agit.
1,000 gal. Pfaudler, 75 pai/yac., 90 pai jkt., 1981,
1,500 gal. Pfaudler, 100 pai/yac., 90 pai jkt., 15 HP agit.
2,000 gal. Pfaudler, 100 pai/yac., 90 pai jkt., 15 HP agit.
2,000 gal. Pfaudler, 100 pai/yac., 90 pai jkt., 15 HP agit.
2,500 gal. Pfaudler, 100 pai/yac., 90 pai jkt., 15 HP agit.
2,500 gal. Pfaudler, 100 pai/yac., 90 pai jkt., 15 HP agit.

## NEW LIQUIDATION! CHEMICAL/POLYMER PLANT....ILLINOIS BUY BEFORE REMOVAL

AND SAVEII Bird 32x50, 316 89 centrifuges, 80: 1 (2) 323 CFM Worth 4 6B-2 Air Comp., 125 pei 76 HP (2)

HP (2)
24" Coneir Pelletizara, mdl. 1024, 40 HP (2)
6"x25" 83 Rotary Hot Air Dryera, 10 HP, (3)
6" Walex Extrudar, 400 HP, 30/1 L/0
8" Walex Extruder, 700 HP, 30/1 L/D (3)
8" Welax Extrudar, 600 HP, 30/1 L/D (2)
K-Tron Twin Screw Vol. Feeder, SS, 7000 #/HR, (4)
352 8F Sparkler, VR-32-32, 75# 8 leel (2)
1500 gel. Pfs ud. Reactor, 316 t. SS, FV/180

1500 gal. Pfs ud. Reactor, 316 L SS, FV/180 pal, 3 HP (2) 10,000 gal. Pfs ud. 316L Reactor, 150/FV/180 psl, 80 HP (4) 15,000 gal. Pfs ud. Reactor, 316L SS, 100/FV/200 psl, 100 HP (3) 25 cu.ft. SS Ribbon Blender, 5 HP (3) 80" Sweco Screen, SS, 1-Deck 60" Kason Screen, SS, 1-Deck 4800 gal. Horiz, R/L Tenk, 15 psl, 6'x21' 12,000 gal. Srighton 316 SS Tank, 12x14, 20 HP agit. (2) 17,000 gal. 315 SS Tank, 13 dia. x 18 ft. High, 20 HP agit. PHONE (609) 267-1600-

PERRY

for

Process

Equipmen

BLAW Knox 5'4"x 40" 88 vac. dryer, 600 cu. ft. Blaw Knox 36"x 20' vac. dryer 3 18L 68, 72 cu. ft. Slaw Knox 66"x 36' vac. dryer, nickel Mathia 24"x48" fisker, chrome plated Sandvík 48"x24" SS bell fisker, UNUSED Sargent 60" x 45' 89 conveyor dryer Stokes 8" x 11" drum flaker Blaw Knox 32" x 90" dbl. drum Buffovak 42" x 120" dbl. drum, 160 pel Aeromatic #8T-5 fluid bed dryer, 5/10 KQ Witte 38" x 10' fluid bed, 88, sanit-cooler Stokes 36 sq. ft. Lyophilizer freeze-dryer Renneberg 36" x 20" rotary dryer, 315 8S Renneberg 5'x 28" 3048S rot. hot air dryers, w/cyclone, atc. (2) 96" x 50' Louisville SS rotary dryer 10' x 100' GATX rot. steam tube dryers, 140 pel (4) Wysamont #YTL-24 Turbo-tray dryer, 30453 P-K & cu. ft. vac. dryer, 30453 P-K 20 cu. ft. vac. dryer, 304L 85 (2) Abbe 30 cu. ft. 304SS vac. dryer Desine 110 cu. ft. 304 88 vsc. dryer Pfxudler 165 cu. ft. glass-etsel vac. dryers (2) Abbe 325 cu. ft. 31688 vac. dryer Devina 370 cu. ft. 316SS vac. dryer Devine 564 sq. ft. vac. shel/ dryer Niro 30" 88 spray dryer Turbulaire 48" x 7" spray dryer

#### Bowen 96" spray dryer, 88 FILTERS-VACUUM

Bowen 72" spray dryer, 88

36" x 1" Ametek, 316SS, 9 sq. ft.
40" x 3" Bird-Young, SS, 48 sq. ft.
4" x 15" Elmco, 316SS, 64 sq. ft., horiz.
5" x 3" Ametek, 55, 55 sq. ft.
5" x 4" Elmco, "Elmcomet" polypropylene, UNUSEO
5x6" x 14"-6" Pessavant 200 belt press, 250 sq. ft., 1982 (4)
6" x 6" Elmco, 98, 200 sq. ft., precosi
5" x 10" Dorr-Oliver, 250 sq. ft., 516S8, precost
5" x 12" Elmco, 316SS, precost, 300 sq. ft., (3)
5" x 14" Dorr-Oliver, 316SS, precost, 350 sq. ft. (2)
10" x 10" Elmco, 316SS, precost, 350 sq. ft. (2)
11"5" x 16" Elmco, 304SS, 528 sq. ft., ftexibell disch. (2)
45" dia. Elmco tilling pan. vac. filter, 315 S5

THE THE PROPERTY

12 sq. ft. Amstek/Hisgera #12, S3 54 sq. ft. Fundx, SS, fittd. 65 sq. ft. Artisen "Dynamic" fifter/washer, SS (2) 320 sq. ft. Durco, 3(61, S3 600 aq. ft. U.S. Autojet, 316SS, sanit. 1000 aq. ft. U.S. Autojet @1000, 3048S 1000 sq. n. U.S. Autojet €1000, 3048S
13" Horman filter press, 21 plates, SS, senil.
30" Sperry filter press, 11 cu. n.
35" Shriver filter press, 546 sq. ft., hydraulic
42" Shriver filler press, 777 sq. ft., hydraulic
43" Shriver filler press, 777 sq. ft., hydraulic
43" Shriver ALP recessed filter press, SS, 276 xq. ft.
48" Clow, polypropylene recessed, 1500 sq. ft.

# **PULVERIZERS**

Mikro #5MA atomizer, 5 HP Mikro #5MA atomizer, 5S Mikro #2DH pulv., SS, 5 HP Mikro #2DH putv., 58, 5 HP
Pailman #REF8 putv., 100 HP
Pailman #PP8 putv., 50/75 HP
Abbe porcelain pebble mills... 36"x42", 38"x48",
42"x60", 48"x60", 50"x48" (7)
Raymond 80" 5-roller hi-lide mills, dbl. Whizzer (2)
Raymond #8058 Hi-lide roller mills, dbl. whizzer (2)
Raymond #73812 Hi-lide roller mill, dbl. whizzer

**NEW LIQUIDATION** DRY DETERGENT MFG. EQUIP. ...NORTH JERSEY!

& Cleveland 120 cu. ft ribbon blendars, 60 HP drive, D-Livestand 12U CU, π προση brenders, cu HP drive, w/ surge hoppers
5-60° C/C steel bucket xievatore
5-Kleissier bag type dust collectors
1-J.H.Day 200 gal. sigms blade mixer, jktd., 40 HP
2-Moyno Pump # R.5830, 5HP.
2-FMC-Stokes form, fill å seal units
2-Eriez #628 vibralory feeder, SS, 60°x 18"x 24", UNUSED UNUSED 2-704co digital electronic scales: 800#, 2500# cap. 1-fairbanks 200# electronic scales: 800#, 2500# cap. 1-fairbanks 200# electronic scale 1-fairbanks 200# electronic sc

2-Standard-Knapp case givers 1-Hercules drum mixer 1-200 gal, SS tank, jitt, & spit.



Over (50) Bird & Sharpiss decantars

# CENTRIFUCES

Sharpies P-5400 D-Canter, 316SS, Carbide tiles, laix (2) Sharpies P-5400 D-canter, 316SS, likes [2) Sharpies P-5000 D-canter, 316SS, back drivx Bird 12" x 30", 316SS, Decanter, 20 HP Sird 18" x 28", 316SS, Decanter (3) 3ird 18" x 42" Decanter, steel, 10/30 Bird 24" x 38" Bacader, 204SS, confered to Bird 24" x 33" Decanter, 3048S, contour 10 Bird 24" x 33" Decanter, 3168S, contour (3) 3ird 24" x 60" Decanter, 3168S, contour (3) 3ird 24" x 66" Decanter, 35, 125 HP 3ird 24" x 96" decanter, 3045S, carbide HMISEO (3)

UNUSEO (3)
3ird 32" x 50" Decanter, Monel, conjour (2)
Bird 32" x 50" Decanter, Monel, conjour (2)
Bird 32" x 50" Decanter, S04SS, conjour
DeLaval NX214-318 Decanter, 304SS, 20 HP (2) Sharples AS18V "Super," SS (5) Sharples AS28V "Super," SS

TARREST STORY

30,000 gsl., 3049S, 14' x 24', colls, 200 HP sgll. (4)
30,000 gsl., steel propans tankx, heriz. 250 psl (5)
17,000 gsl., 3049S, 12' x 24' (2)
17,000 gsl., 316LSS, 11' x 24' (3)
17,000 gsl., 316LSS, 12' x 14', Agit. (2)
12,000 gsl., 316LSS, 12' x 14', Agit. (5)
10,600 gsl., 316LSS, 3' x 26'
10,400 gsl., 3048S, 10'8" x 12'
5,000 gsl., 3048S, 10'8" x 12'
5,000 gsl., 3048S, 9'x6', 25 HP sgit.
3,500 gsl., 3048S, 7'x 10', agil.

MIXERS, BLENDERS

3.5 cu. ft. Henschel #FM160, 17/20 KW
11.5 cu. ft. Henschel #FM160, 17/20 KW
11.5 cu. ft. Lodige #W800/K1200, mix/ecol comb.
18 cu. ft. Strong-Scotl 304SS ribbon blender (3)
20 cu. ft. P-K twin ehelf SS
35 cu. ft. Oxy Heuta, #NBX360, SS
60 cu. ft. Demco ,TW 8H, Sanit, 55
69 cu. ft. Demco ,TW 8H, Sanit, 55
69 cu. ft. Day Nauta, #N3700, 10 HP
73 cu. ft. Day Nauta, #N3700, 10 HP
73 cu. ft. Oay Nauta, 8S, ktd.
76 cu. ft. Robinson SS ribbon blender, jktd. (2)
98 cu. ft. Oay Nauta, SS, 1981
110 cx. ft. Jt. Day, dbl. ribbon, 316SS
120 cu. ft. Claveland ribbon blendera [5)
169 cu. ft. Claveland ribbon blendera [5)
169 cu. ft. Young, ribbon, 88
313 cu. ft. Sprout-Waldron ribbon blender, SS, jktd.

Sharples AS28V "Super," SS
DeLayal SPR-213-30, 31695 separator/desiudgare (3)
Westfalla SAMhi 5037, Desiudger/Separator, 31695
Westfalla SAMhi 5037, Desiudger/Separator, 31695
Westfalla SA14-35-075 3-way separator, 31695
Krupp 10" pusher, 51695, 15 HP
Baker-Perkins 19" pusher, 30495, 40 HP
Sharples 48" "7-1800 suto-basket, 100 HP
Tothurst 48" Batchmaster, rubber fined, 30 HP
Sharples 48" Tornado-Mailc, SS, 25 HP
Delayal 48" Mark 111, 31695 hyd.
CENTRIFUGE PARTS... Sharples, Bird, DeLayal, etc.

EWAL THEAT SHEET 2.4 sq. ft. Rodney-Hunt 86, 3 HP
21 sq. ft. Rodney-Hunt Turbaffirn #4, 83
67 sq. ft. Rodney-Hunt Turbaffirn #4, 83
67 sq. ft. Prizudier, 3181 SS, wiped film
100 sq. ft. Prizudier, 3181 SS, wiped film
600 sq. ft. Gosfin-Birmingham dbi. affect, 88
654 sq. ft. Suflovek dbi. affect, SS
1415 sq. ft. Vulcen, 3169S
1688 sq. ft. Roger dbi. effect, SS
Swenson 31883 continuous crystallizer, 6"x 14"

FURNACE, C-E Air Co. "Cor-Pek" thermost dizere, direct gee fired 8'x2" W x 7'\$" 1 12'8" L (4)

mixere or pug mille, 304SS contacts, (2)

PULVERIZERS, Mikro #4TH pulverizers, 1284

PULVERIZERS, Mikro #18CS, 71/2 HP, HA lock & 304SS disc, chute

GPM @ 1500 pei, 50 HP
PUMPS, Paebody #14D0H-2 ccoling beit
pumps, 2000 GPM at 140' head, 100 HP
SHRINK WRAPPERS, GTX Prod. #PSBY4XM shrink wraps with oven



PNEUMATIC TRANSFER

(8) Nooter 4'x 14' 316 SS rot, vac, dryers, 1982, NEW

#### PROCESS EQUIP., 1982. IN ORIGINAL PACKING ... SOUTH CAROLINA, CAR

BALERS, Diepozepek #D900 beier, [2] SAG PACKER, Howe-Richardson #6-14 semi-eutometic begging system \$5 cobs. heel eeeled closer, etc.

Phone (609) 267-1600

BINS, 304L SS contects, 1300 cu. h. May 11'8" x 11'8" x 18" high, electrelatored CENTRIFUGE, Bird 24" x 98", 30485, Main eoild bowl continuoue, 10 deg. content in Tungsten cerbide tilee on conveyor, 1819 2900 RPM bowl epeed (3)

CHLORINATION SYSTEM, Wellace & Thro #V800 floor mounted modular chlorington COLUMN, 48" die. x 15'9", 30488 mit columne, designed for egitation (2)
CYCLONE, DuCon Model 700/175 30488 M elticiency cyclones, elze 210, Type VM (8)

DRYERS, Nooter 4' x 14' rolery vec drye, 118 SS shell end jecket, incoloy ribbot 14 ASME 100 pai/FV ini. & jecket. 100 HP put eged Relience drive with treg. comset.

EEDERS, Acrison gravimetric weigh leefs, Model 403-15,000-3,000-80F-4,30(1) contacte, Model BDF-4 volumetric tests Size "R" metering, euger end disc. cylinis etc., etc... all SS contacte

MIXER, Air mix blender eyelem, Koppers Spra Weldron #38-50, 500 cu. ft., 30488, 11 19'10" w/483 eq. ft. dust collector (2) MIXERS, Webb, 59" W x 15'L twin sheft padde

PACKAGING SYSTEM, dealign to till begs, pe

drive, (15) PULVERIZERS, Mikro #4MP pulverizers, 18時 drive (5)

PUMPS, Able #H18-57-48 triplex punt. R

PNEUMATIC TRANSPERIOR BLOWER PACKAGES

(30) Roots "Whiepair" positive bigits packaged by Fio-Tronics, for play transfer...150, 100, 80, 40, 25, 20 10 transfer...ALL NEWI

EQUIPMENT CO. INC. WORLD HEADQUARTERS...

**CLARK COMPRESSORS** 

RECIPROCATING (MOTOR DRIVEN)

CBA-4, 3000 hp Drivers (3 Available) CRA-2, 900 hp Drivers (2 Available) RA-1, 350 hp Drivers (2 Available) CMA-4, 400 hp Drivers (1 Available)

**CYLINDERS** 

\*Six 1014 x 17, Lined from 1214 cast steel, 2000 PSI Three 71/8 x 17, forged steel Three 5% x 17, forged steel Two 18 x 14 Two 29 x 14 Four 101/2 x 8

#### CENTRIFUGALS

3M5/2M7, 2500 hp Driver 2M-10, 4000 hp Driver

\*ATTENTION HBA FANS

Our Inventory includes many other cylinders compatible with these frames, other frames compatible with these cylinders, and other drivers for Reciprocating and Centrifugals. Call Jack Burch.



# **LOUISIANA CHEMICAL EQUIPMENT COMPANY**

P.O. Box 1490 Laporte, Texas 77571

(713) 471-4900 TLX 77-5653

#### **NEW ARRIVALS**

12"x30" BIRD Centrifuge, 316 Stainless with 20 HP motor. (Ref #23692).

18"x28" BIRD Centrifuge, 316 Stainless 10 deg Bowl, 80:1, with 15 HP motor. (Ref #23693).

24"x38" BIRD Centrifuge, 316 Stainless 15/3 deg Bowl, 40:1, with 40 HP motor. (Ref #23694).

500 HP CLEAVER BROOKS BOILER, gasfired, 17,250 PPH, 150 PSI, New 1971. (Ref #23695).

UNUSED 500 HP CLEAVER BROOKS BOILER. gas-fired, Series 700, 17,250 PPH, New 1975. (Ref #23696)

#### **ALSO AVAILABLE**

HEIL Rotary Dryer, Model 105-32, 3-pass, 10'6" Dia X 32' with 100 HP HEIL BLOWER ASSEMBLY, (Ref #20104). (4) BELIOTT DEWATERING PRESSES, Model 2919 36" X 56", 304 Stainless, driven by 10 HP motors. (Ref #20106A & #20106B).

2-UNUSED HOCKMEYER 200/100 HP explosion proof disperser, tank mount, Stainless Steel

shart, manufactured 1982 **NEVER INSTALLED** 

STUART EQUIPMENT CO. P.O. Box 469 North Chicago, 1L 60064 312-473-450D

Janu: 25-160 Gal. storage & mixing, 8/5 & fibergless 100 Gal. 30 96 storage tank, vertical, closed, dished hds. O Akishand 300 Gal. 8/5 Reactors, 60/40 PSI, 50 HP 2-Spd. Akishand 300 Gal. 8/6 Reactors, 10/40 PSI, 20 HP. 19 PSI, 40 HP 2-Spd. Akishand 300 Gal. 8/6 Reactors, 10/40 PSI, 20 HP. 19 PSI, 40 HP. 19 PSI, 40 HP. 19 PSI, 40 HP. 19

(312) 842-2200

# RAYMOND

**PULVERIZING MILLS Immediate Shipment** (312) 541-5600

wabash

444 Carpenter Avenue, PO Box G Wheeling, II Prione 312 / 841-8800 TELEX 28-2588

BLEHDER-330 Cu. Ft. Areco Steel End BLENDER-10 Cit. Ft. Gentoo-Matic Staintess CENTRIFUGE-48" x 30" Western Stales Port., S.S. 316 CENTRIFUGE-#5500 PodbleIniak S.S. 316 PUP Series DLUMN-36" x 20' Plaudier Glass Packed OLUMNI-24" x 30" Plaud'er Glass Pricked OMPRESSOR-860 CFM (T. 125 PSI Clark ICA-6, 150 IIP MPRESSOR-400 CFM 🖟 160 PSI Fuller C-80-80H, 106HI DRYER-5 cu. fl. P.K. Conical Vectium Statiless
EVAPORATOR-6.54 sq. ft. Rindney fluid S.S. 316 System EVAPORATOR-1 sq. ff. Rodney Hunt S.S.316 w/Conde HANGER-388 50. ft. 304 S.S. 150: 150 P EXCHANGER-278 sq. II. 334 S.S. EXCHANGER-175 aq. 1t. 316 S.S. 150 (53 PSI Codo EXTRUCTOR 6" Rietz S.S. 304, 51IP Yan XP HOMOGEHIZER-42) 6PH G 0000 PSI Marton Gaulin Statistes HOMOGENIZER-AUTOPT (2) 5050 i STIP
MILL-STH Mikin Pulvenzer Steel, 15TP
MILL-STH Mikin Pulvenzer Steel, 15TP
PROCESSOR-50 cu. ft. P.K. V. Typo S.S., Jkl. Vec. 5504(0)
PROCESSOR-50 cu. ft. P.K. V. Typo S.S., Jkl. Vec. 5504
PROCESSOR-50 cu. ft. P.K. V. Typo S.S., Jkl. Vec. 5504
REACTOH-5 gal. Pfa. Jfe: FV 3.60 PS: 50 PSI Jkl. 316 S.S.
PROCESSOR 50 cu. ft. Pla. Jfe: FV 3.60 PS: 50 PSI Jkl. 316 S.S. HEACTOH-5 gal. Pfa., d'er FV à 60 PS 160 PS 161 316 8

TANK-10.600 gal. (ierizonial, S. 6. Clad

TANK-4200 gal. Vertical 334 S. 5. 25 PS (UNUSED)

TANK-4000 gal. Vertical 334 S. 5. 25 PS (UNUSED)

VACUUM PUMP-150 CFM (S. 18 M S) 46 (43 II-10, 3 RF)

VACUUM PUMP-80 CFM (S. 18 M S) 46 (43 II-10, 3 RF)

VACUUM PUMP-80 CFM (S. 18 M S) 46 (43 II-10, 3 RF) VERSATCR-0-3 Cornel S S. 316 11 (19) Valu XP

Pasters Seed Res 12-20 & 10-25 Search Mills, 40 & 25 HP XP.
Pasters Seed Resi Mills, 6'26' & 8'X9' and other sizes.
Reterior Seed Resi Mills, 6'26' & 8'X9' and other sizes.
Reterior Seed Resi Mills, 6'26' & 8'X9' and other sizes.
Reterior Seed Resident Mills from 16" x21" Tup.
Reterior Seed Resident Seed Resident Res 1CHEMICAL EQUIPMENT CO EQUIPMENT CO. INC. P.D. Box 368 Marketo N.J. 07045 (20) (335-9776) (2.3.4-11) (2.3.4-11) (37.4-12) EAST 21st STREET CHICAGO, IL 60616

69 cu. ft. 88 Pett. cons, w/liquid bar Ribbon/Peddle: 650, 200, 120, 70, 40, 23 cu. Conical: 820, 200, 150, 130, 80, 20, 10, 5, 2 cu. ft. (16) Twin Shell: 200, 100, 75, 40, 30, some with Intensifiers (12) Double Arm: 1000, 500, 300, 200, 150, 10, 7, 2½, ,76 gel. Sigma, jktd. Pony: 125, 75, 100, 80, 60, 50 gel. (12) Planetary: 100, 65, gal. vecular Dispersers: 75, 50, 40, 25, 20, 15 HP (6) Littleford: FKM 2000D, FKM 500D, FKM 300 D, FKM 130D, littl. & choppers (4) COLTON, All Sizes

MISCELLANEOUS Vec. Pumpe: NASH: CL 2003, CL 1003, AT 30. KS 27, Stokes: 212 H 10. eblet Presses: STOKES, MANESTY,

2 cu. ft. PK BS Twin Bhell w/bar

3TH Mikro Pulverizar 30 HP BTB-100 Aeromatic BB Fluid Bed Oryer

23 cu. ft. 88 Day double ribbon, 71/2 HP

300 gal. Plaudier G/L 23/90 paf, 3TW

Unused 70 cu. ft. Titanium dble cone vac Dryer

REACTORS

2000, 1000, 750, 300 gal. G/L, mech. seale

(7)
3000 gal, 316 SS 100/150 psi vari. agit.
3000 gal, 304 SS, 25/125 psi, ½pipe coll
jktd., agit New 1974
2000 gal, 315 SS, 75/180 psi, agit.
1000 gal, 316 SS, 30 & FV/150 psi, agit.
500 gal., 316 SS, 75 & FV/70 psi, agit
24 more in etock from 10 to 300 gala., 304
& 316 SS. Call Now.

SS BLENDERS

MIXERS

13"x28" 318 SS Bird Bolld Bowl Centril.

**NEW ACQUISITIONS** 700 gal. Readco jktd. Sigma mi xer, 400 HP

100 gal. DaDietrich G/L reactor, 25/90 psi mech. aas, 2HP 86 Ht. Exch.; 246,200, 123, 56, ap. ft. 10 gal. 8-P Diapersion jktd., vao., 20 HP 7 gal. 8-P Diapersion jktd., ram, 26 HP 2½ gal. Day 88 Bigma jktd., vac., 10 HP .76 gal. Read 318 86 Bigma jktd., vac. 1 HP

FKM 2000 D, 120D D, 600 D, 300 D, (5)

#### **FILTERS**

42" Shriver poly, 50 ch., 4 eye 45" poly chambers, 1½" cake, 4 eye (150) \$8 filter presses: 18", 18", 18", 12"(7) Sparklers: 3389, 18D10,8-6

## CENTRIFUGES

48"x30", 40"x24", 316 SS euto-batch 40", 30", 26", baskat, SS & R/L avail. P5000, P3400, P3000, P2000, Sharples 40"x60", 24"x60", 15"x28", 5" Bird DeLavel: NX 207, BRPX 207 Westphalla: SAMN 5035, 8A 1435-076 HS36, HS24, S5, 815 88 S-P "Tar Meer"

MILLS/PULVERIZERS Chilleonator system, all SS, 4LX10D Pitzmilis: F20, F8, D6 (6)

Mikro: 4TH, 3TH, 2DH, 28CS, 18H, 6MA 3-Roll Mills: 16"x40" to 4"x8" (9) Ball & Pelblei 6"x12" to 2"x2" (12) Colleid: 50, 25, 18, 10, 5, 1HP Reymond: 5057, 5047, 4237, 3036

DRYERS/EVAPORATORS

Belt Flakers: 48"x64", 48"x45", 20"x20" Con. Vac.: 500, 100, 50, 40, 10, 2.6 c.f. Rotary Vac.; 130, 40, 20, 10 cu. ft. S.S. Fluid Sed: 100 kg, 60 kg, 30 kg, 8.8. Double Drum: 12"x16", 5"x6", 8.8. Flakers: 6"x6", 3"x6"6", drum 2004; LS, MD 674 KINNEY: KDH 150, KD Rotary: 5'x70" to 2'x14' (12)

George Equipment & Machinery Co. 135 Manchester Place, Newark, N.J. 07104 rel. (201) 481-0900 Telex No. 138944

CHEMICAL MARKETING REPORTER

CHEMICAL MARKET DO REIS RIVER

and the same of the same of the

COPY DEADLINE: Wednesday Noon preceding dale of publication.

RATES/Claselfled Ads: \$57.75 for 36 words or isss; \$9.75 for each additional aix words or fraction. No diepiay. First two words printed in bold face typa. Non-display adverticements payable in advance, except for contract customers (not aubject to agency commission).

REPLIES: Send replies to classified ads with box numbers to CHEMICAL MARKETING REPORTER, 100 Church St., New York, NY 10007-2694.

iNFORMATION: For further classified advertising information, cell 212/732-9820.

**POSITIONS OFFERED** 

Chs mical Sales aggressive chemical distributor currently

has high potential safes position svaliable in northern N.J. Minimum 2-3 yrs. chemical safes experience with good customer following, lemitarity with reagant and technical safes required. We offer competitive compensation—terrific opportunity. Send resume to Sox CMR-721.

NYC besed international Petrochemical Corp. seeks

bright, reliable person for entry level position in Purchaeing Dept. College degree required; loreign languages a plus Send resume & salary requirements to Box CMR-720.

"Sales manager position offered to the right person knowledgeable in sales of C & R. 2-5 years seles experience essential. Position requires 10-40 percent trevel (sastooast). We offer salary and commission on your salary and commission on your salary and the Roy CMI 722".

SERVICES OFFERED

Custom solids packaging and distribution in the port of Mobils, Multi-wall bage, bulk bage, drums and bulk Screening, repackaging and warehousing. Rail and truck lacilities. Contact: Philip Hahn, SEAPAC, Bidg. 14A, Srookley Complex, Mobile, AL 36815, 205/433-3541.

meeting will be held October 9 to vote on the

Mr. Boeschenstein said the recapitaliza-

tion plan "requires that the company ration-

alize its businesses and redirect its corporate

strategy to focus the company on its cash

generating, core businesses. He asld manage-

ment will immediately begin restructuring

the company with sn eye towards maximiz-

ing cash flow, "substantially and promptly

reduce costs, eliminate businesses that do not

meet our return on investment criteris, and

reise cash through the sale of certain assets."

He sald the restructuring will leave OCF

strategy in what we will manage for cash

flow rather than actively making major in-

vestments in potential future growth areas."

He further stated that "the board believes

that the company's management — rather than an outsider unfamiliar with our organization and its businesses — is most qualified

to deliver to stockholder the full values inher-

for 150 members of management to pur-

chase 1 million shares of the new common stock. Mr. Boeschenstein in his statement

added, "as s future incentive to those mem-

bers of management they will be entitled to receive an additional 1.5 million restricted

shares," and an option to buy another 1.5

million shares. This roughly equals 10 per-cent of the total outstanding shares of the

argelles ABT Dursin

Custom & Contract Industrial Materials & Chemical

To explore problems or projects:

Call (201) 267-8888

September 1, 1998

TABLETTING.

BLENDING

PACKAGING

PROCESSING

To that end, the recapitalization plan calls

ent in the company."

recepitalized company.

**Owens-Corning** 

oposed recepitalization pian.

Continued from Page 7

#### **BUSINESS OPPORTUNITIES**

Seaking Broker for dynastuffs and intermediates. Rapidly growing Oyes & Chamical Company. Contact: P.O. Box 298, Hunlington, N.Y. 11743.

#### CHEMICALS OFFERED

40,009 pounds bulk Glycerine 64% synthetic (yellow). Has burnt odor from distillation. Available every 6 weeks. 72c. per pound, f.o.b. Mississipi. Also sveisble 30,000 pounds Phanacalin USP, mads by Monsanto, 60 mesh coarse/grenular. Contact CMR Box 716.

#### CHEMICALS WANTED

Active Suyer of surplus chemicals, pigments, dyes, resins, waxe a plastics atc. Call toll free 1-800-631-3337 or 617-829-6736. Oser Polymer Corp. Chemical Div. 17 Industrial Drive, Holden, MA 01520.

All Surplus — Chemicals — Resins — Oils — Colors Solvents — Plasticizers — Specialdes — Intermediates — bought by: Rambach Chemical Co., Inc. 52 Vesey Streel, PO Gox 5167, Newark, NJ 07105. Phone: (201) 882.7774

Cash For your surplua chamicals, reains, colors, pharmacsulicals, dyes, other raw materials, by products, westes, residues and off-spec meterials. Morgan Chemicals Inc., 5500 Meis Street, Wilsemeville. NY 04221 (716) 632-4000;

Realize Top Value from the sele of your surplus Chamicals. We buy eurplus Chamicals, Plastics, Resins, Waxes, etc. Bormsr Chemical Co., P.O. 8ox 484, Fair Lewn, NJ 07410. Phone: (201) 791-2448; Telex: 13-0434.

Resyn Corp. will buy your surplus chemicals, resine and resh raw materials — prime or oll-specification, Resyn Corp. P.O. Box 63, 1540 W. Slancke St., Linden, NJ

Surplue Chemicals: Wanted, high prices paid-for-surplus chemicals, resins, pharmacsuticals, colors, plastidzers, solvents, waxes, etc. Prompt and efficient service. Try us for better prices. Chemisales Inc., 107-27 160th Street, Jamaica, N.Y. 11433. (718) 658-0400-01.

Surplus Wanted: Chemicels, pharmaceuticals, dyea, solvente, pigments, waxes, other rew materials. Over 55 years service Chemical Service Olv., P.O. Box 846, 97-05 Ongley St., Rockvills Centre, NY 11571, (516) 536-5533. We Suy Surplus chemicals, colors, resina, solvents, plasti-cizers by-products, str. Over 50 years of service to indus-try. Eastern Color & Chemical Co., Inc. 65 Roosevelt Ave., Dept. C.P.O. Box 1029, Valley Stream, N.Y. 11562, (518)

more streamlined, "with a core of successful snd profitable businesses." He said the pism slso "represents a major change in corporate Your Surplus is our inventory. We buy all chemicals, pig-ments, rasins, solvents, phasticizers and pharmaceuticals, Prompt inspection and cash terms on each offering, Pyre-mid Chemical Sales Co., 1035 Virginia Orivs, Fort Wash-ington, PA 19034. (215) 542-9292.

#### EQUIPMENT OFFERED

Cumbaries d Chopper 50 hp. Mitts & Merrik "Hogger tombanad Choppar 50 hp. Mitte & Merrill "Hogger" 100 Hp. 100 gal. glass lined reactor. Pfaudier. 8.S. Jacksted vessels, 100-500 gals. Ourfon 3X11/2—5 HP. pump. 500-7000 gallon S.B. tanks. Gaulin N pressure pumps. Lester Kehoe Machinery Corporation, 2581 Richmond Terrace, 8 taten Island, NY 10303, (718) 447-3410, Telex: Drury 423486.

Olementier has used process equipment tor asia: Columns, Exchangers, Heaters, Reactors, Pressure Ves-eals, Tanks, etc. Midwast Steel Co., Inc. 9825 Moers Road Houston, Taxes 77075, 713/981-7843.

Free: Three 15,000 gal, mild ateel vertical tanks twelve lest diameter in good condition, held methanol in North-east Philadelphia ares. Contact Ruth Duncan 215/244-0900 — Nationwide industries, Bensalem, PA 19020.

Ribboa Blandars for sale. Many sizes la stock. Remanu-lactured end guarenteed. All sizes available. Stainless Steel and Steel construction. We quote Tom Williams Co. 9503 Framont, KC. Mo. 84134 816-761-4264.

Sprey Oryers for Sale: 2 Niro Spray Oryers, Model 120 struments. Both units excelled condition. Contact Ann Rolow, Kemin Industries, Gox 70. Des Moines, lowe 50301, 515/266-2111.

Tashs For Sale: Blue Glass & Epoxy Lined Tanks up to 37,000 gal. se. Irom Milwaukse and Detroit. Sacrifice price) Free list: Brewery Works, Box 1467, Milwaukse, WI 53201-1487, (414) 272-1702.

#### EQUIPMENT WANTED

Stokes 2-Siage Vacuum system Model 1722, 1) Stokes MDL 412-11 Microvac Pump, 300 CFM-10 HP, 2). Roots high vacuum booster 615 RGS, 1650 CFM, 1) hp Blower. We also are looking for a Philadelphia worm gear reducer-1000 MDA, input 1700/50, O utput 8.76/.256, Ratio 165-1, Louistana Chemical Equipment, Al Rotenberg, (504) 923-3602, Box 65064 Baton Rouge, LA 70896.

CHEMICAL MARKETING REPORTER

# SELECT used machiner

#### LARGE BIRDS

(12) 40" x 60" Bird decenter, 316 S/St, 15/3 deg. conjour, 5" pitch, aingle leed conveyore w/Stellite herd eurfacing, 80] gearbox, 100 HP V-belt mein motor drive. Naw iste & Excellent condition. Limited Use. Immediately Available for

(2) 32" x 50" Bird decenter, 316 S/ST, 15/3 deg. conjour, § pitch, eingle lead conveyora w/Stellite herd aurfacing, 801 geerbox, 75 HP V-belt drive. Excellent condition. Limited Use immediately Available from Stock.

#### KOMAREK GREAVES BRIQUETTER

(2) K/G briquetting preeees, model 150MS-20.5-9.2, hydreulic roll force, verleble epeed feeder, diecherge conveyor, complete eyetem.

#### VACUUM DOUBLE DRUM DRYERS

(2) Blew Knox designed double drum dryere, 16" x 48" & 38" x-120", chrome pleted, eech w/vecuum chembere & vecuum pump peckege. Excellent condition. Reedy to Ship.

# WYSSMONT DRYER

Model N-22, 6' die treye 22 high, with eteinlese eteel contect perte. Mey be ehipped in one plece. Steem heeted.

#### ROTARY FILTERS

Ametek 8' x 12' rotery w/belt diechergs, 316 etelniess, new 1974 - Excellent condilion. -Ametek 5" x 61/2' rotery w/belt diecherge, 316 eteinless. New 1974 - Excellent condition.

#### STAINLESS DRYER Louieville eteiniese etesi eteem tube dryer, 6' dle x 40', etelniees

eteel cled ehell w/etelnlese eteel eteem tubee. Also Available:

#### Roto-Louvre mdl 900-32, 9' dle x 32' long, eteem heeted, 30 HP motor, ell fene & Flex-Cleen dust

CRYSTALLIZER Titenium contact perte, 8000 lbs p/hr cepecity. New 1976. Com-

# plete end etili instelled.

RAYMOND ROLLER MILLS \* \* \* Just Purchased \* \* \* (3) Reymond high elde roller mills, model 5057, double whizzer eeparetor, fen; feeder, cyclone, duct work & bucket elevetor.

#### LARGE SHARPLES SUPER DECANTERS

(2) Model P6100 Sharpise Super Decenter, 316 S/ST, carble tiles, 250 HP mein drivs, 12th geerbox w/beckdrivs, Nev 1979. Complete, Excellent Co.

#### FLUID BED DRYER

Jeffrey fluid bad dryar, 5' x 20, 304 eenliery construction, conplete Instelletion Including fast, dust collector, S/ST scrubbel & controls.

EXCELLENT CONDITION

## INDUSTRIAL FILTERS

(2) Industrial Filter Systems, 600 & 200 eq. ft. each, dry cake discherge, spoxy lined steel tenk w/316 S/ST filter leaves. completely eutomaisd w/computer controlled ectusions. Like New Condition.

#### RESIN REACTOR (1) 6500 gellon 316 S/Tt reso-

tor, 30 PSI/full vecuum intsinel 15 PSI jecket, 45 PSI 316 S/ST colls, 10/15 HP 2 epesd turbine egitetor, S/ST overheed condeneer. New 1977. SIIII in etelled. Excellent condition.

#### STRONG SCOTT SOLIDAIRE DRYERS

Model SJS-24-16, 24" die x 16" long, 304 eteinlees, dimple jed et, 50 HP veri drive. Model SJS-20X16, 20" dia x 16 long, 318 etelniees alesi, jacket

Model SJS8X52, 8" dia x 52 long, etelniess, jecksled, plot

#### JUST PURCHASED

Link Belt Roto-Louvre Dryer10'3' x 36' long, mdl #1003-36 complete eystem incl 50 H drive, firebox w/20,000,000 BTU gee burner, ell fans, duct work & controle, multi-cyclone collector & Sly 30,000 CFM beg house. Excellent Condition Still Installed We will load - Cal for FOB Prioling

# AMETEK ROTARY PRECOAT FILTERS

receiver, pump, mix tank & Nesh vacuum pump. Rebuilt. 6. Complete etation w/ Yevai (3) 10' x 16', 316 stainless steel, 100 HP Roots vacuum pump receivers, interconnecting piping, etc. Rebuilt.

(1) 3' x 3', etring discherge, 316 etainless, incl S/ST agitated through, vari epeed mtr, vari speed dry on drum, 316 stainless Sihi vacuum pump. Excellent condition

# MACHINERY and EQUIPMENT CORP.

P.O. Box 7632-O · San Francisco, CA 94120 Call Tell Free 880 227-4544 In California Call 800 792-2975 OR 415 467-3400 Telex 3

Continued from Page 43

WOSTOL Meadows Wye 20 dms (9 lbs) (Sea Land Voysoe) Ernerheven, 7/24. NOSTOL NF REGULAR POWDER Feliek Chemical 20 MOSITOL Nº NEGOLLAN POWDEN FRIEND CHEMICAL 20 dins (2425 lbs) (Ming Moon) Yokoheme, 7/23. (MEXCHANGE RESIN Sybron 860 bgs (87174 lbs) | Ming Moon Kobe, 7/23.

Moon Kobe, 7/23.

Moon Kobe, 7/23.

Moon Kobe, 7/23.

Moon Kobe, 7/23.

Moon Kobe, 7/23.

Moon Kobe, 7/23.

Felicitions, 7/29.

FON CH.ORIOE Order 13 dms (1512 lbs) (Stuttgert Express) Bremerhsven, 7/22. RON OXIDE Charles Kurz 18 plt (40591 lbs) (Ever Greet)

ON OND C. MINERTO, 7/10.
Antwerp, 7/10.
Landers Begal Color 850 bgs (43475 tbs) (American Condo) Rotlerdam, 7/21.

Condo) Rotlerdam, 7/21. Condor) Rotterdam, 7/21.

Irena World Shop 720 bgs (40454 lbs) (Ever Living)
Folusions, 7/21.

RON SLDHATE George Uhe 183 dms (45241 lbs) (Ever
Greet) Hemburg, 7/10.

RON THEOPHYLUNE ANHYDROUS Janet Intil Fwdra

200 dms (13977 lbs) (8ing He) Shanghai, 7/19. 508JTM, 8ROMIDE American Import Service 13 dms 7/98 be) (American Ohio) Rotterdam, 8/1. 508JT/RIC ACID ICT Consultants 1 con (40785 lbs) (Ever Oreet) Rotterdam, 7/1D. SOKONANOIC ACID Order 156 cek (72587 lbe) (Ever

Umg Rotterdam, 7/21. SOMMALIC ACID Reichhold Chemicals 2D bbg (40785

bij(AlWattysh) Genos, 7/21. 3set 2100 bgs (118981 lbs) (Ever Shins) Leghorn, 8/8. 80HHTOL Order 1 tnk (35758 lbs) (Atlantic Star) Rottor-

SCHYTCL. Crost 1 thk (35766 lbs) (Atlantic Star) Hottor-dem, 7/18. thk (35756 lbs) (Atlantic Star) Rotterdem, 7/18. thk (35756 lbs) (Atlantic Service) Rotterdem, 7/23. SCHROPANOL, Penelpina 139 ctn (2381 lbs) (Heide) Hemburg, 7/25. SCPROPYL ALCOHOL Chemitest Chemical 2 bks (4492366 lbs) (Golar Petroses) Rotterdam, 7/22. StatOl 12 pkg (4666 lbs) (Allantic Conveyor) Liverpoot, 7/21.

SOPROPYL BENZENE Order 1 bks (23027 lbs) Jo Sirk) Rotterdam, 7/18. SOPROPYLETHER Kloeckner Chamical 1 bks (811377 bi)(Golar Petrosea) Rotterdam, 7/22.

[ACONG ACID Rhone Poulenc 1440 cs (82278 lbs) (Presor Meerek) Meraelile, 7/16.
ELUTONG GUM3 NOS L A Oreytus 36 plt (00587 lbs)
[Fee Orest) Bingapors, 7/10.

LARGINE FREE SABE Kyowe Hakko 50 dms (7407 lbs)
(Lode Meersk) Kobe, 7/18.
LCYSTEINE DISODIUM SALT MONOHYD Angel Prod-LEMEDRA Gans (243 lbs) (Louis Mearsk) Tokyo, 7/24.
LEMEDRA Ganea Chemicsis 4D ctn | 2531 lbs) | American Brois) Hong Kong, 7/21.
LINERONE L VALINE Kyowa Hekko 4 dune (484 lbs) (Los Marsk) Kobe, 7/24.
LINERONE L VALINE Kyowa Hekko 4 dune (484 lbs) (Los Marsk) Kobe, 7/24.
LINERONE Malinistra (Nobelana, 7/23)

sold Minister) Yakoherrus, 7 /22. Shora Deska America 40 dms (5 t 15 lbs) (Or lontal Min-See Kobe, 7/22. Licrost Generichem 266 dms (27302 lbs) (Evor Living)

Rotterdem, 7/21.

LAMPONG BLACK PEPPER ASTA Ludwig Mucker 420 tog (68114 ftg) (Ever Linking) Singaporo, 7/20.

LEAD RUDRIDE ARBENIC United Mineral & Chemical 23 to (1027 btg) (Louis Meerek) Tokyo, 7/24.

LEAD SUBACETATE Ronde & Liceonicki 40 chns (4021 bt) (Risterd Evers) Liceonicki 40 chns (4021 bt) (Risterd Evers) Liceonicki 40 chns (4021

be) (Blutigart Express) Hamburg, 7/22. MERCURY METAL CIVI Mel Metale 100 ce (\* 3/8 lbs) Metarkin Brols Hong Kong, 7/21.

METACKLORGANILINE Order 20 dries (11093 lbs) | Dert Common Februstows, 7/22.

METACKLORGANILINE Order 20 dries (11093 lbs) | Dert Common Februstows, 7/22.

METACKLORGANILINE Flower And Hong 600 bgs (44022 lbs) | See Land Visuance Restaurance 7/24.

(Sel LANDE Hohm & Hose boo by the (1970) (Sel LANDE Hohm & Hose boo by the Land Voyages) Rottordam, 7/24, MSTHYALLYL CHLORIDE Stoft Tank Conteinore 2 trik (1965 be) (Ming Moon) Kobe, 7/23.

METHANOL Order of Shippor 1 bise (8610 libe) (Jo Birk) Rotterdam, 7/18.

METHOCARBAMOL SCC 140 dates (4782 libe) (Atlentic Conveyor) Livercool 7/21

Correyor) Liverpool, 7/21.

ETIM: 12 Hyberool, 7/28.

ETIM: 14 Hyberool, 7/28.

ETIM: 14 Hyberool, 7/28.

ETIM: 14 Hyberool, 7/28.

ETIM: 14 Hyberool, 7/28.

ETIM: 14 Hyberool, 7/28.

ETIM: 14 Hyberool, 7/28.

ETIM: 14 Hyberool, 7/28.

ETIM: 14 Hyberool, 7/28.

Moon! Yokohama, 7/23.

Moon! Yokohama, 7/23.

METHYL CYANOACETATE Same 8hpg 25 dms (12401 bb) (Ming Moon) Kobe, 7/23.

METHYL CYANOACETATE Same 8hpg 25 dms (12401 bb) (Ming Moon) Kobe, 7/23.

METHYL ETHYL KETONE Chamileel Chemical 1 bks (22005c bb) (Golar Patrosea) Rotterdam, 7/22.

Methyl ETHYL KETOXIME John Weldner 76 dme (27/55 lbe) (Moxandra) Rotterdam, 7/18.

32753 lbs) (Alexandra) Rollerdam, 7/18. INTL HEPTADIENONE Order 1 dms (132 lbs) (Leda Mersk) Tokyo, 7/18. MY METHACRYLATE Burface Air Inti 1 Ink (36506

bej (Ever Greet) Felixstowe, 7/10.

Dej (Ever Greet) Felixstowe, 7/10.

LETHYL METHACRYLATE MONOMER Order 2 tnk (19432 lbs) (Ever Greet) Felixstowe, 7/10.

LETHYL METHACRYLATE MONOMER Order 2 tnk (19432 lbs) (Ever Greet) Felixstowe, 7/10.

LETHYL FARABEN NF Total Port Clearance 118 trw (14788 lbs) (Zhr Total Port Clearance 118 trw (14788 lbs) (Zhr Genove) Haife, 7/8.

LETHYL SALICILATE Felton Intil 182 dms (87788 lbs) (Gazia Bi Constanza, 7/28.

Razia Bi Constanza, 7/26.

Razia Bi Constanza, 7/26.

RETHYLERT IJARY BUTTYL ETHER Order of Shipper 1

METHYLCARBAMOL Scanfreight 43 dms (4222 lbs) (Attention of Shipper 1)

METHYLCARBAMOL Scanfreight 43 dms (4222 lbs) (Attention of Shipper 1)

METHYLCARBAMOL Scanfreight 43 dms (4222 lbs) (Attention of Shipper 1)

METHYLENE BIS CHLOROANILINE Palmer Davis Seike 1, 210 dms (35781 lbs) (Ming Moon) Kobe, 7/23.

Roots 78 bri (26543 lbs) (Ever Living) Antwerp.

METHYLENE PHENYLENOISCOYÁNATE Rekertss.

7/21.

ROOTS 78 bri (26543 lbs) (Ever Living) Antwerp.

EDITIONE PHENYLERO IIBOCYANATE Rekortan Sporte 36 bri (18049 ibe) (Ever Living) Aritwerp PENTENE POLYMERS MIRE 40 PK (45415 De). Lega Meersk) Kobe; 7/18. I/METHACRYLATE MONOMER Degussa 2 Ink 8075 (Ibs) (Stuttgari Express) Bremerhaven, 7/24.

LOW DENSITY POLYETHYLENE Alted Paper Products 2340000 pcs (35124 lbs) (Ame 7/17.

SIA CARBON BRICK K & M Custom Brokers 2984 pcs | 74544 lbs) (Ming Moon) Kobs, 7/23. MAGNESITE F W Myera 169 bis (7293 lbs) (Atlantio Ser-

vics) Rotterdam, 7/23.

MAGNESIUM ACETATE 4 HYDRATE Order 32 dms (3728 bs) (Stutigart Express) Bramerhaven, 7/22.

MAGNESIUM CARBONATE JOR Resources 25 bss (2227 lbs) (Ever Living) Hemburg, 7/21.

MAGNE3IUM CHLORIDE Potssh Import & Chemical 420 bgs 142278 lbs) (Dart Continent) Bremerhaven, 7/22.

NESIUM NITRATE K Chemical 828 bgs (46718 lbs) (Zim Montreal) Heits, 7/29, MAGNESIUM OXIDE Desmo Chemical 680 bgs (38228

Ibs) (Ming Moon) Kobs, 7/23.

MAGNESIUM SULFATE HEPTAHYDRATE A ACS Chemical Ind 40 dms (4782 lbs) (Kiso Maru) Kobs, 7/15.

MAGNESIUM TRISILICATE Robeco Chemicals 20 bgs (1116 lbs) (Allantio Ster) Rotterdam, 7/18.

N BUTYL METHACRYLATE MONOMER Order 1 Ink (40212 lbs) (Nedlioyd Rouen) 8remerhaven, 7/22. APROIC ACID HARMLESS Wacker Chamicals 10 bri (4408 lbs) (TFL Jefferson) Sremerhaven, 7/21.

NALIDIXIC ACID Sterling 22 dms (2578 lbs) (Dart Atlentica) Felixstowe, 7/26.

NAPHTHOL Penson 400 dms (26015 lbs) (Sing Hs)

Shenghel, 7/18. HTHOQUINONE SULF CL NA SALT Order 280 dms

(15255 lbs) (Louis Magrisk) Kobe, 7/24.

NICKEL SULFATE Atrimet Induses 840 bgs (43342 lbs)
| Ever Living) Antwerp, 7/21.

NICOTINAMIDE Vitache Reilly Tar 20 bbg (39110 lbs)
(Stuttgert Express) Antwerp, 7/22.

NICOTINAMIDE Vitachem 800 bgs (44821 lbs) (Dart Continent) Antwerp, 7/22. NICOTINAMIDE FEEDGRADE Vitachem 600 bgs (44621

tbe) (Dart Continent) Antwerp, 7/22. NITRIC ACID M G Transport Warshouss 18 bxs (606 lbs) (Woensdrecht) Hamburg, 7/25.

NITROANILINE POISON B Leachaco 152 cak (38457 lbs) (Stuttgart Express) Rotterdam, 7/22.

NITROCELLULOSE IND Fsyette Chemical 112 dms | 140826 lbs) [Zim Genovs) Sercetona, 7/8.

NITROCELLULOSE WET ALCOHOL Fsyette Chemical 113 dms | 140826 lbs) [Zim Genovs) Sercetona, 7/8.

125 dms (41888 lbs) (See Land Voyager) Bremer-

ORTHO XYLENE Order 1 bks (1757280 lbs) (Bow Hunter) Silvey Shpg 1 bks (4398329 tbs) (Golar Petrosea) Rotterdam, 7/22. OSSEIN Order 3405 bbs (307527 lbs) (Al Wattyah) Jebel

All, 7/2 1. OXALIC ACID E J Espoelto 772 bgs (39145 lbs) (Bing He) Shenghel, 7/18.
OXYACETANILIDEMOIST Order 118 dms (17189 lbs) |Stuttgert Express| Antwerp, 7/22. XYNITROPHENYLARSENIOUE Rhond Poulenc 200 dms (24471 lbs) (Nedlioyd Rochester) LeHavrs, 7/

OXYTETRACYCLINE HYDROCHLORIDE Holm New York Chemical 40 kgs (4702 lbs) (throilin) Rijeka, 7/10.

ACETANISIDINE Penson 200 dms (26133 lbs) (American Illinois) Kobe, 7/21. PENICILLIN Novo Laboratories 201 dms (t3071 lbs) (At-

lentic Conveyor) Gothenburg, 7/21.
PENICILLIN G SODIUM Deniel F Young 1 con (5509 lbs) (Oleander) Hamilton, 7/17.
PERCHLORIC ACID M G Transport Warehouse 1 bxs (88 lbs) (Woonsderchi) Hamburg, 7/28.
PERI ACID POWDER Oriex Chamical 405 dms (53125 be)

(Oriental Minister) Hong Kong, 7/22. 3060 cs (120000 tbs) (American Ohio) Rotterdam, 8/1. PETROLEUM RESIN OUINTONE R 100 Mitsul 8810 bgs (338002 ins) (Ming Moon) Kebe, 7/23. ENYL METHYL PYRAZOLONE ORLEX Silver Shpg

170 dms (23261 lbs) (Helds) Hamburg, 7/25. PHENYLACETIC ACID NON HAZARDOUS IMC 800 dms (35847 lbs) (Nedfloyd Rochester) LeHavre, 7/15.
PHENYLPROPANOLAMINE DL CALCIUM P Milrans 750

nix (44146 lbs) (Bing He) Kobs, 7/19.
PHOSPHORESCENT PIGMENT GRADE Hartrodt
Schmidt 28 dms (2610 lbs) (Stuttgart Express) Hamburg, 7/22.
OBPHORESCENT PIGMENTS United Mineral & Chemical 20 dms (4233 fbs) (Louis Maersk) Tokyo, 7/24.

PHOSPHORIC ANHYORIDE Order 595 dris (40928 lbs) (Ever 8 uperb) Foe, 7/18.

PHOSPHOROUS PENTOXIDE M G Trensport Warehouse 4 bxs (86 lbs) (Woenedrecht) Hamburg, 7/25.

POLYSUTENE S P OB 78 dms (32328 lbs) (Nedlicyd Exprese) Marsalle, 7/22. POLYSUTENE NAPTEL S P OI 78 dms (32328 lbs)

POLYSUTENE NAPTEL S P OII 78 dims (32328 lbs)
(Nadilloyd Express) Marselte, 7/22.

B P Performence Polymers 312 dims (129316 lbs)
(Dragor Maersk) Marsellie, 7/16.
POLYGLYCOL MELAMIN HARMLEBS Henris Brown 2
pol (784 lbs) (TFL Jetferson) Bremerhavn, 7/21.
POLYMERIZEO DEHYDRATED CASTOR OII. Order of
Sulppor 76 dims (33704 lbs) (Naturo) Santos, 7/9.
POLYTETRAFLUOROETHYLENE Hearisoth Kerner 179
dims (22089 lbs) (Kisco Maru) Tokyo, 7/16.
POLYTETRAFLUOROETHYLENE DAIKIN P Sumitomo
of America 420 dims (12963 lbs) (Oriental Minister)
Kobe, 7/22.

Kobe, 7/22.

POLYVINYL ALOOHOL Merubeni America 540 bgs (49843 lbs) (Lede Maersk) Kobe, 7/18.

Mitsul S30 bgs (14870 lbs) (Lede Meersk) Kobe, 7/18.

POLYVINYL CHLORIDE PEVIKON Tarkett 769 bgs (434) bs) (Ever Greet) Hamburg, 7/10.

POLYVINYLCHLORDE SLOVIO motores (2005)

(ba) (Ever Greef) Antwerp, 7/10.

POTASSIUM HYDROXIDE Autotype 7, os (4087 ibs) (Atantio Compass) Liverpool, 7/7,

Mallinokrodt 343 dms (40000 lbs) (Atlaritio Compass) Gothenburg, 7/7. 343 dma (40000 fts) (Atlantic Conveyor) Gothenburg.

343 dma (40000 fts) (Atlantic Corresyor) Gothenburg, 7/21.

POTASSILIM HYDROXIDE 6884 Mellinckrodt, 160 dms (0 lbs) (Sea Land Veyegsi) Bremertaryan, 7/24.

POTASSILIM HODIOE Ampek 44 dms, (4645 lbs) (Al Wettyeln) Dubist, 7/21.

PROCAINE PENCILLIN Order 360 dms (44921 lbs) (Eyer Greet) Hamburg, 7/10.

PROGREBSO OLIVE OIL, Progresso Quality Footist, 800 cm (46627 fbs) (Armidens) Valencia, 7/25.

PROMETHAZINE HYDROCHLONDE Hipote Poulenc 36 PROMETHAZINE HYDROCHLONDE Hipote Poulenc 36 PROPYLENE ORD (Atlantic San) Lettevie, 7/6.

PROPYLENE DICHLONDE Lescrisco 64 trw (7478 PROPYLENE DICHLONDE Lescrisco 64 trw (7478 PROPYLENE DICHLONDE Lescrisco 1 con (44842 lbs) (Ever Greet) Rotardam, 7/10.

Philip Villedrouin 2800 cm (70328 bs) (Sea Land Leader) Algedras, 7/22.

PVC COMPOUND Dynamit Nobel 20 ctn (48968 lbs) (Ever Living) Antwerp, 7/21. and Imports 40 bxs (86979 fbs) (Alexandrs) Bremen.

PVC COPOLYMER RESIN Emob Chemical 1050 bgs (47115 ibs) (Ming Moon) Kobe, 7/23. PVC EMULSION RESIN EPISOL POWDER ICC Ind 784 bge (44074 lbs) (Zim Genova) Halta, 7/8. PVC RESINS Gibert 8 Bennet Mfg 1800 bgs (101588 lbs)

(Ever Superb) Gence, 7/19.
PYRAZOLIC ACID SULFOPHENYL METHY Order 81 dms (7518 bis) (Ming Moon) Kobe, 7/23.
PYRIDINIUM BROMIDE Ameritarom 1 dms (245 lbs) (Export Freedom) Halfa, 7/18. YRIDOXINE HYDROCHLORIDE Takeda 130 dms (8488

ibs) (Kiso Maru) Kobe, 7/15. BRACHO EXTRACT 8LOCK Barkey Inti 384 bgs (39683 be) (Ban Martin f) Buenos Aires, 7/18.
OUINIZARINE TECHNICAL Janel Intl Fwdrs 43 dms
(21588 lbs) (Stuttgart Express) Antwerp, 7/22.
REX OXIDE VIO 800 8G8 (40234 lbs) (Al Wettysh) Va-

SODIUM BICARBONATE Vitusa Products 1580 bgs

Living) Rotterdam, 7/21. SODIUM CITRATE DIHYDRATE Order 1800 bgs (164804 Iba) Ever Living) Antwerp, 7/21. 80DIUM DICHLORO ISOCYANURATE Order 256 dms (67725 is) (Ming Moon) Kobe, 7/23. 80DIUM ERYTHORBATE PMP Fermentation Products

80DIUM ERYTHORBATE PMP Fermentation Products
480 dms (36095 lbs) (Ming Moon) Kobe, 7/23.
80DIUM FERROCYANIDE Degusss 2160 bgs (11867 1
lbs) (Stuttgert Express) Antwerp, 7/22.
30DIUM FORMALDEHYDE Atles Intermodal Transport
440 dms (78585 lbs) (Ming Moon) Kachslung, 7/23.
80DIUM GLUCONATE Akzo Chemis 770 bgs (39010 lbs)

(Ever Living) Rotterdam, 7/21. MP Fermentation Products 1115 bgs (0 lbs) (Ming Moon) Kobe, 7/23.

338 dms (39185 lbs) (Dart Atlantica) Bremerhaven, 7/ SODIUM HYPOPHOSPHITE 1 HYDRATE Order 5 dms 1582 lbs) (Stuttgart Express) Bremerhaven, 7/22. SODIUM LAURYL SULFATE J J Gavin 812 bgs (23583

ibej (Kiso Maruj Kobe, 7/15. SODIUM LAURYL SULFATE USP Continental Chamical 875 bgs (38546 lbs) (Ever Unking) Keelung, 7/20. SODIUM METAPERIODATE Robeco Chemical 5 dms (573 lbs) (Dart Continent) Felixstowe, 7/22. SODIUM PERBORATE MONOHYDRATE Deguase 540 bgs | 41 096 lbs) | Stuttgart Express) Hamburg, 7/22.
SODIUM SILICATE SOLUTION Order of Shipper 1 bks

SODIUM SILICATE SOLUTION Order of strupper 1 bits 1203403 lbej Jlo Birk) Rotterdam, 7/18.

SODIUM SIUCO FLUORIDE Atlas Intermodel Transport 450 bge (39782 lbe) (Ming Moon) Kaohaiung, 7/23.

SODIUM TRIPOL-YPHOSPHATE Economics Leb Exporte 40 bbg (89110 lbs) (Al Wattyah) Leghorn, 7/21.

SORANE RESIN Knepp King Size 320 dms (19841 lbs)

(Woensdrecht) Zeebrunge, 7/25. einbrennar Shos 97 mlx (23818 lbs) (American Ohio) Felixatowe, 8/1. 8TANNOUS OCTOATE Sattvs Chemicals 21 dms (12698

PVC Ferrero 603 crt (19689 los) (Dragor Maerak) Genoe, STEARIC ACID CANDLE WICK & ETC Karneyama 1 ca (2939 lbs) (Kiso Meru) Nagoya, 7/15. HING GEAR SYNTHETIC RESIN RO Intercaceanica

Agency 1 ptt (0 lbs) (See Land Voyager) Bremer-heven, 7/24. SULFADIMIDINE BODIUM Order 200 dms (22046 lbs) (Hreljin) Filjake, 7/18. SULFAMETHOXAZOLE Shionogi 84 dims (1D185 lbs) SULFAMETHOXAZOLE 8hlonogi 84 dms (10185 los) (Leds Maersk) Kobs, 7/18.

SULFAMIC ACID Atlas Intermodal Transport 800 bgs (45269 lbs) (Ming Moon) Keelung, 7/23.

NPS Inti 770 bgs (39846 lbs) (Kiso Maru) Kobs, 7/15.

SULFAOUINOXALINE Richard Boss 40 dms (2734 lbs) (Sultigart Express) Hemburg, 7/22.

SULFONIC ACID Universal Trascontinental 400 bgs

123104 lbs] Ming Moon) Kobe, 7/23.

TALC Coastal Severage 810 bgs (45238 lbs) (Dragor Maersk) Marselle, 7/16.

TARTARIC ACID GRANULAR & POWDER Joseph C Mur-

TARTERICACIDGHANULAR & POWDER Joseph C Mir-rsy 432 bgs (44803 lbs) (Export Freedom) Barcelona, 7/18.

TERPENE OIL 8haw Mudge 1 dms (441 lbs) (American Michigan) 8antos, 7/25.

TERPINOLENO Roehig Fwdg 32 dma (0 lbs) (Export Fre-dom) Barcelons, 7/18.

TETRACHLORO P BENZOQUINONE Mirrans 3D dms (1142 lbs) (Odental Minister) Kobe, 7/22

(161438 bs) (Ever Living) Antwerp, 7/21.

SODIUM BROMATE Ameritarom 4 con 8 t 57496 bs) (Export Freedom) Haifs, 7/18.

SODIUM CASEINATE De Zean 800 bgs (44771 lbs) (Ever living) Antwerp, 7/22.

TETRAHOROF P BENZOQUINONE Mitrans 3D cms (11442 lbs) (Oriental Minister) Kobe, 7/22.

TETRAHOROF P BENZOQUINONE Mitrans 3D cms (11442 lbs) (Oriental Minister) Kobe, 7/22.

TETRAHOROF P BENZOQUINONE Mitrans 3D cms (11442 lbs) (Oriental Minister) Kobe, 7/22.

TETRAHOROF P BENZOQUINONE Mitrans 3D cms (11442 lbs) (Oriental Minister) Kobe, 7/22.

TETRAHOROF P BENZOQUINONE Mitrans 3D cms (11442 lbs) (Oriental Minister) Kobe, 7/22.

TETRAHOROF P BENZOQUINONE Mitrans 3D cms (11442 lbs) (Oriental Minister) Kobe, 7/22.

TETRAHOROF P BENZOQUINONE Mitrans 3D cms (11442 lbs) (Oriental Minister) Kobe, 7/22.

TETRAHOROF P BENZOQUINONE Mitrans 3D cms (11442 lbs) (Oriental Minister) Kobe, 7/22.

TETRAHOROF P BENZOQUINONE Mitrans 3D cms (11442 lbs) (Oriental Minister) Kobe, 7/22.

TETRAHOROF P BENZOQUINONE Mitrans 3D cms (11442 lbs) (Oriental Minister) Kobe, 7/22.

TETRAHOROF P BENZOQUINONE Mitrans 3D cms (11442 lbs) (Oriental Minister) Kobe, 7/22.

TETRAHOROF P BENZOQUINONE Mitrans 3D cms (11442 lbs) (Oriental Minister) Kobe, 7/22.

TETRAHOROF P BENZOQUINONE Mitrans 3D cms (11442 lbs) (Oriental Minister) Kobe, 7/22.

TETRAHOROF P BENZOQUINONE MItrans 3D cms (11442 lbs) (Oriental Minister) Kobe, 7/22. 1 hob (11 lbs) (Ever Greet) Hamburg, 7/10.
THIAMINE HCL Amsigamated Mistels 25 dms (0 tbe) (Oriental Minister) Hong Kong, 7/22.
THIAMINE HYDROCHLORIDE Takeda 120 dms (3988

ibs) (Kiso Maru) Kobs, 7/15.
THAMINE MONONITRATE Amalgamated Metals 75 dms (0 ibs) (Oriental Minister) Hong Kong, 7/22.
TOLUENE DIBOCYANATE TEDIMON Montedison 66 dms (39431 lbs) (Export Freedom) Leghom, 7/19. TRAGACANTH GUM TIO Gums 4D bgs (4497 lbs)

(3chackenborg) latenbut, 7/17.
TRICHLOROACETIC ACID Order 15D dms (18158 lbe) (Stuttgart Express) Ermerhaven, 7/22. TRIETHYLAUMNIUM Sherex 1 can (128 bs) (Ever Living)

Moon) Rose, 7/23.

SODIUM HYDROXIDE Mailinckrodt 343 dms (40000 lbs)

TRIETHYLAMINE Order 78 dms (27728 lbs) (Ever Superb) Fos, 7/18.
TRIMETHYL CYCLOHEXANONE Accelerated Shpg 30

pkg (13294 lbs) | Atlantic Compass) Liverpoot, 7/7.
TRIMETHYL CYCLOHEXENYL METHYLBUT Order 79
dms (34484 lbs) | Atlantic Sage) Lettavre, 7/8.
TRIMETHYLCHLOROSILANE Dow Corning 78 dms (30953 lbs) (Aliantic Conveyor) Liverpool, 7/21.
TRIMETHYLOL PROPANE Browning Chemical 850 bgs (44092 lbs) (Al Wattyah) Genoa, 7/21.
TRIMETHLOLPROPANE Leschago 1 lnk (40887 lbs) (Stuligert Express) Rotterdam, 7/22 TRIPHENYL PHOSPHATE Order 840 bgs (38773 (bs) (Atlantic Conveyor) Liverpool, 7/21.
TRISODIUM CITRATE DIHYORATE Order 398 bgs (44864 lbs) Ever Living) Antwerp, 7/21.
TURMERIC Order 180 bgs (28113 lbs) (Schackenborg) Pt

Lkmon, 7/17. Stepan Chemicals 188 bge (25348 lbs) (Scheckenborg)
Pt Umon, 7/17
TURPENTINE GUM Reimer Mariens 1 tok (37235 lbs)

(American Michigan) Perenagua, 7/25.

TURPENTINE WATER WHITE Reimer Martens 1 con | 38927 ibs| (American Michigan) Santios, 7/25.

ZINC STEARATE New England Resins 8 Pigment 440 bgs (0 ibs) (Oriental Minister) Kachelung, 7/22.

Shawnee Chemical 540 bgs (13007 ibs) (Ever Linking) Keelung, 7/20.

# **ADVERTISERS' INDEX**

1 Chemical Equipment Co	LsRocha Industries29
ron Equipment Company	Lindau Chemical Inc
Olvision, Areco, Inc	Louisiana Chamicel Equipment Co., Inc 51
20 Chemis America2	Lucidol 11 tv. Pennwall Corp8
iled Chemical14	Machinary & Equipment Corp
ista industrisa, inc	Meer Corporation25
izona Chemical Company1	J. Little Mercar Co., Inc
tek incorporated11	Metro Otl & Chemical Corp27
shisnd Chemical Company	Miles Laboratories, Inc
siment U.S.A. Inc21	Montedison USA, Inc
SF Corp1	Nippos Fins Chemical Co. Ltd
didle 8swyer Corporation	Orlex Chamicals Corp25
owning Chemical Corp	Orayna x Inc26
F Chimie North America27	The PQ Corporation31 Perry Equipment Co. Inc50
Chemicals, inc30	Pfizer iso
S Chemica (Co56	Prior Chemical Corporatios1
labrian international Corp	Procter & Gamble10
P, Cargille Laboratories, Inc	Railly Tar & Chemical Corporation15
ina National Chamicala	R.(T.A. Corporation
Imports & Exports Corp	Robeco Chemicals, inc
urch & Dwight Co., Inc 13,15,17	SRS, Inc
earing Contains; Inc	8SF Dotalkon16
ncord Chamical Company, (nc	S.S.T. Corp24,25
one Ohemical Corp	Shell Chemical Company20
ion Chamical Corporation	Sherex Chemical & Co., inc
assester Charactel Co., Ltd	Specialty Chem Products Corporation16
Industry Politics Corporation	Spectrum Chemical Mfg. Corp.,28
C todustrial Chemicals	Standard Chlorine Chemical Co., Inc18
Instrume Chaminal Co., Inc.	Stuart Equipment Co
Abrel Paulament Company	Tanaba U.S.A., Inc
at a deale lan	Texaco Chemical Company
naral Flactric	Thompson-Hayward Chemical Co30
Acres Continuent and Machinery Co51	Thorson Chemical Corporation
and to the a Co. Inc.	Union Carbide, Agricultural Products Co. Inc
e administration location and the second	Products Co. Inc
dwicke Chemical Co24	Upjoha Ohemical Company
(go, lne	U.S. Sorex & Chemical Corporation1
Assemble 17	U.S. Emulsifier, Inc
ustrial Raw Materials Corp	Universal Process Equipment, Inc
and Packaging31	Videx Machinery Corp49
- Law Consideration	Virginia Chemicals (ac
ergnem Corporating &  (lachinery Corp	Wabash Power Equipman (Co
dachinary Corp	Jim Walter Resources, Inc
Here Bengue Kalsha, Ltd	Wego Chemical & Mineral Corp28
ohem industries	Westo Technologies, Ltd
(a) miner Phaemidala Into	WHICH LADREST HON AND AND AND AND AND AND AND AND AND AN

CHEMICAL MARKETING REPORTER

# CHEMICAL PROFILE PLATFORM

# PARAXYLENE

SUPPLY	
	O. D. O. D.
PRODUCER	CAPACITY
PRODUCER Amoco, Decatur, Ala	1,07
Amoco, Texas City, Tex	1.10
Ondalon, Lascadoria, Miss	
Exxon, Baytown, Tex	
Lyondell, Houston, Tex	40
Phillips, Guayama, P.R.	47
St. Croia Patrochemical, St. Croia, V.I.	801
Koch, Corpus Christia, Tex	
Tannaco, Chaimatta, La	14
Total	

\*Millions of pounds annually. Chevron expanded its cepecity by about 170 million pounde per year through dabottlenecking efforts in 1985. Exxon hes elso undergone debottlenecking efforts end improved its capacity by 200 million pounde per year since 1983. Kech underwent improvements in energy efficiency which produced a 80 million-pound-per-yeer capacity increase in 1985. Profile last published 8/22/83; this revision, 9/1/186.

#### DEMAND

1985: 4.5 billion pounds; 1988: 4.7 billion pounds; 1990: 5.23 billion pounds.

Historical (1975-1985): 4.1 percant per year; future: 3 parcent par year through 1990.

Historical (1973-1985): High 31c. per pound; bulk, divd.; low 61/4c. per pound bulk, frt. aqual.; Current: 191/2c. par pound, dlvd., contract; spot, 18c. par pound

Dimathyl Teraphthalate and tarephthalic acid for saturated polyaster production, 100 percent (axcept nagligible emounts) for use as solvents, coating or pasticides. This includes 75 parcent for domastic consumption and 25 percent for export.

#### STRENGTH

World growth in paraxylena is expected to be as high as 4 percent per year. Spot prices, usually for export materiel, are currently firming. US producers have just complated an acrose-tha-board shift to higher purity stendards. Orthoxylane and mataxylena contents have been reduced by 0.1 and 0.4 percent respectively. Ovarall purity standards have been raised from 99 parcant to 99.5 percent minimum p-xylana content. PET resin, a downstreem peraxylana product la growing by about 10 parcent annually in the US.

Domaetic consumption of paraxylena for polyaetar fiber raw materials is stagnant due to increased textila production oversaas.

#### OUTLOOK

Tha world markat la a promising ona for paraxylana. New DMT-TPA facilities ovarsaas, perticularly in the Far Eest, are expected to expand demand for US product. Rising demand for PET realns and the expected introduction of the PET 12 oz. "can" and new PET bottle sizes could create a rapidly growing demand

#### LNG Outlook

The following is excerpted from an assessment of the LNG outlook by Matcoint Peebles, director of Shell International Gas

The uncertainty surrounding energy orices is not a conducive climate in which to make major investment declaions. fnevitably a walt and ace attitude prevalls. Thus, if a return to a stronger price regime is delayed for several years, this will almost certainly mean a corresponding delay in LNG project development until better days are here again. But auch delays would not be confined to LNG projects and would embrace the majority of capital intensive energy projects. The evidence for this is already with us, with the growing numbers of caocellationa and postponements announced each month around the world.

Meanwhile, a continuing period of low energy prices is likely to stimulate energy demand with the possible consequence that forecasts of aupply/demand deficits are likely to come forward rather than sllp back

#### Time For Incovation

f would hope that while we are all waiting for these upturns in demand and in prices to occur, the LNG industry will not sit idly by. Tbls breatbling space, if that la what it is, in project implementation can be put to good purposes. It is time for innovative thinking and planning: a time to examine new ways to reduce unit costs, to investigate the technical and economic scope for amaller scale projects, to explore new and cost-effective techniques, to study new ways of project flnancing, to review contractual and operational terms and conditions — the list of useful taaks to be undertaken is almost endless.

Moreover, these tasks are not confined to the sellers' side, as buyera will need to give thought to how they can give some price and offtake security to sellers to ensure the timely development of new projects.

Successful work along these lines will put the LNG industry in good shape to press on quickly and rigorously the moment the economic climate for LNG starts to improve. fn fact, time is not on our side as one can be almost certain that LNG's competitors will be doing much the same thing as they gcar themselves for a return to more normal trad-

I think that the realities of the past few years have shown that none of us has been very successful at forecasting the futuro. The recent Soviet nuclear powar accident has provided a tragic rescinder that we live to ununcertain and unpredictable world. It is too early to assess the long term effect of that particular incident, but it does highlight the point of future uncertainty I referred earlier

to a window of opportunity la Western F rope. I think the keynote for the future in a markets of interest is a randiness to select opportunities wherever and whenever the occur, and this requires a continuing eller from potential buyers as well as from poletlal scilers. Indeed existing and prospective buyers of LNG would be well advised to es sure that they cherish and safeguard the supplies sa as to be well-placed when the inevitable upturn in energy demand occur with its consequential pressures on supply,

During the 1970's the United States we expected to become nt least as big a manig for LNG as Japan. During the last few year all import schemes have either been as celled or have been suspended ladefinitely.
As always, with the benefit of hindely

there are good explanations. One of the pricipal ones was price deregulation. The US Natural Gas Policy Act of 1978 effectively allowed constantly escalating gas prices and by the early 1980s had created a aupply ght the reverse of the situation prevailing when LNG contracts were developed. Initially, 'high cost' LNG could be accommodated within limits, by rolling It in with love priced locally produced gas against a bedcloth of rising oil prices. It became unmarketable, though, when energy prices started to decline from their peak and lower price locai gas supplies became more than siequate for a declining demand.

The present role of LNG in Westero Esrope is a little betier but here again part expectations have not been realized, Among the contributory factors have been:

- The emergence of Norway as a major alternative gas source
- Growing availability of Sovlet and Dutch gas at competitive prices · A perception in Western Europe M. North African LNG was becoming too exper
- sive compared with alternatives The downturn in energy demand cause

by rising oil prices in the late 1970s. As far as Japan — the warld's largest LNG market - is concerned, forecasts have been rather batter, albeit towards the lower endel the range than nt the higher levels expected some years ago. Japan is a highly compeltive market with nuclear and coal the main alternatives to LNG for power generalist. which in turn comprises about three-quarters of the existing outlet for LNG in Japan. These strong competitive pressures, as well as the technicol need to allow for some of based encrating caracity for load wheeler purposes, are expected to moderate laws

growth rates for ING as compared with the Moreovor, the axtent to which new sur sources will be needed to the Ind's of yond will be heavily conditioned by whether or not existing projects are expanded during their contractual lifetime, and/or extended when their contractual obligations expire.

## **Cyclo Industries Names Technical Sales Reps**

Cyclo fuduatries, maker of specialty chemleals for the cosmetles, soap and detergents, mining, plastics and petroleum industries, haa appointed Tom Burns and Larry Merchant as technical aalcs representatives.

Mr. Burns will be based in Cyclo'a Miami, Fig., heedouarters and will cover the Fiorida market. He waa previously with McKesson Chemical Company.

Mr. Merchant will cover the Southeastern US and will be based at Cyclo's Atlanta diatribution center. He was most recently with Van Waters & Rogers in Atlanta.



viaion of Witco Corporation, covering the Southwestern Ohio and East-Central Kentucky territory... JAMES J. MARKHAM has been named product manager for Metal Coatinga International Inc.'s "Dacromet" corrosion resistant coating line.



R. STEVE HUGHES has joined Magnatrada Corporation as a manager of the concerns. Chemical Division and DWIGHT L. MOORE has also joined the firm as a Chemical Division manager... DELBERT F. TOLEN has been named West Coast regional manager for fluid cracking catalyats in the Ketjen Catalysts Group of Akzo Chemie America.



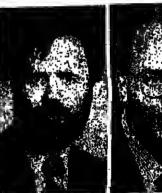
JOBS & PEOPLE {{{ }}} JOBS & PEOPLE

J.R. Croziar, who haa baan appointad vice-pres-ident and asalstant ganeral managar of UGI Chamicals, part of National Diatiliars & Chamical

JOHN W. MATT has been appointed director of manufacturing in the Inorganic Chemicala Division of Mobay Corporation... JOHN G. AUSTIN has been named sales representative for the Ohio. West Virginia and Western Pennsylvania sales territory at Reed Plasties Corporation... DENNIE CARLETON La been appointed director of parenteral operations for E.R. Squibb & Sons.

JANIS A. BALDASSARI has been appointed sales representative for Sanncor Industries in New Jeraey, Pennsylvenia, Maryland and Delaware... WILLIAM M. OLLER has been named executive vice-president of Texas Eastern Products Pipeline Compeny... EU-GENE SECOR has been named facility manager for the Wilmington, Mass., hot metal dhesive production facility of the Adhesives, Sealants & Coatinga Division of H.B.

LARRY L. HAMMIT has been named caustic aoda product manager in the Chemicals Group of PPG Industries.... MICHAEL B.



### **Merck Appoints Two** In Kelco Division

Merck & Co. fnc. has named Richard A. Empey director of quality assurance in its Kelco Division and Dr. Kenneth S. Kang director of microbiological sciences research

Mr. Empey has been responsible for implementation of Kelco's quality certification

Dr. Kang will be responsible for identily-ing, evaluating and bringing to Kelco new blotechnology and biologically-derived products as head of microbiological sciences research. He was instrumental in the commercialization of Keico's food-grade xanthan gum, "Keitrol," in the late 1960'a.



EDWARDS has been appointed director of quality management at Enron Chemical Company... ROBERT F. MENG has been named aaies representative for "Tolonate"



bexamethylene dilsocyanate resins at Rhone-Poulenc Inc.

TIMOTHY R. SCOTT has been appointed a technical representative in the specialty inlustrial polymers group at Rohm and Haas Company... C. WILLIAM GRAY has been named vice-president of human resources at B.F. Goodrich Company.

# MEETINGS CALENDAR 章



SEPTEMBER 1, 1986

#### THIS MONTH

AMERICAN CHEMICAL SDCIETY, 192nd annual meet

CHEMICAL MARKETING RESEARCH ASSOCIATION, world chemical congress, jointly with the chemical marketing and economics division of the American Chemical Society. "The Chemical industry: Where in the World is II Going?", Newporter Resort Hotel, New-port Beach, Cail., September 7-10.

COUNCIL FOR RESPONSIBLE NUTRITION, Annual meeting, "Health Messages: New Directions and New Opportunities." J.W. Marrioll Holel, Washington, C.C., Septembor 7-10.

#### LATER ON

AMERICAN MICROCHEMICAL SOCIETY, BARTETTI AND lytical symposium, jointly with American Chamical So-ciaty and Society for Applied Spectroscopy, New York Mion Hotel, New York, October 20 24.

CHEMICAL MARKETING REPORTER

AMERICAN PETROLEUM INSTITUTE, annual meeting. ABBOCIATION OF OFFICIAL ANALYTICAL CHEMISTS.

lonal meeting and exhibition. The Registry Hotel, Scolisdale, Artz., September 15-18.
ASSOCIATION OF THE NON-WOVEN FARRICS INDUS-TRY, eighth International conference and exhibition, Georgia World Congress Center Atlanta Gs. Colo.

CANADIAN CHEMICAL PRODUCERS ASSOCIATION, internetional symposium on transportation emergency response, Vancouver, a.C., Canada, September 14-

CHEMICAL GROUP, NATIONAL ASSOCIATION OF PURCHASING MANAGEMENT, Fall Conference,
Purchasing Management, Fall Conference,
Purchasing Management, Fall Conference,
Chemical Special Ties Manupacturers associ-ATION, seminar on aerosol technology, Ramada Holel O'Hare, Rosemont, II., Ootober 27-29; 73rd amuel meeting, Marrioti's Harbor Seach Resort, Fort Lauderdale, Fla., December 7-11.

CALURINE INSTITUTE, Fall meeting. The Homesteed, Hot Springs, Va., September 21-25.

COMMERCIAL DEVELOPMENT: ASSOCIATION, Impact of mergers and adquisitions on the Juliure of technol.

pepiember 1 1988

rporations, Harshey Hotel, Hershey, Ps., CONFERENCE BOARD, business guillook conference,

Weldorf-Astoria Holel, New York, September 24-25.
COUNCIL FOR CHEMICAL RESEARCH, annual meeting. western University, Evanston, III., September

ROPEAN PETROCHEMICAL ASSOCIATION, ENDUE meeting, Monie Carlo, Monaco, September 28-Octo-ber 1; distribution meeting, October 19-October 22. FERTILIZER INSTITUTE, world lertilizer conference "Global Tracing Petterns," Hyan Regency Hotel, San Francisco, Call., September 14-18.

PERTILIZER ROUND TABLE, Sheraton Inner Harbor Homore, Md., November 17-19. PIRE RETARDANT CHEMICALS ASSOCIATION, Fall

conference on proper processing and selection of lame retardants, Klewah leland, S.C., October 19-22, FRAGRANCE MATERIALS ASSOCIATION OF THE UNITEO STATES, 10th International congress of ea-sential oils, insgrances and flavors, Ornal Shoreham. Hotel, headquarters hotel, Washington, D.C., Novem

ber 16-20. K-'86, 10th international trade fair for pleatical and rubbet. Dusseldorf, West Germany, November 6-13.

such a partie of the state of the training of the training the state of the state o

LATIN AMERICAN PETROCHEMICAL ASSOCIATE sixih annual meeting, Rio Palace Hotel, Rio de Janeto. Brazil, November 23-25. NATIONAL ASSOCIATION OF CHEMICAL DISTRICT

tel, Neples, Fla., Occember 2-6.
TIONAL PAINT & COATINGS ASSOCIATION, MICH. annual meeting, Atlanta Hiton Hotel, Atlanta

PULP CHEMICALS ASSOCIATION, 13th intermedial neval stores meeting. Waldorf-Astoria Hotel, New York, September 18-17.

SOCISTY OF CHEMICAL INDUSTRY, Chemical Industry, medal dinner, Plaza Hotel, New York, Coloos 15.

SOCISTY OF CHEMICAL INDUSTRY, chemical interest of the medal dinner, Plaza Hotel, New York, October 15, medal dinner, Plaza Hotel, New York, October 15, medal dinner, Plaza Hotel, New York, October 15, and conference — South, Jointly with the Society and conference — South, Jointly with the Society Place to Conference and Conference Centre Place Bender of Conference Centre Place Bender of Conference Centre of Conference Centre of Conference Centre of Conference Centre of Conference Centre of Conference Centre of Conference Centre of Conference Centre of Centre

tember 25-26.

WOMEN IN PLAYOR & FRAGRANCE COMMERCE of MOMENTAL Open dinent meeting. Low & Gerbone, tember 25, 100 people, 18 people 25, 100

was principle and partial sound wanted 

# BUSINESS BRIEFS

Michael S. Leo, who has been named to the

newly-created position of agnior vice-president and chief administrative officer of Rhone-Pou-

lenc inc. Ha was previously with intamational

JIM D. GRIEBEL has been named market-

ing manager af power generation chemicals

and business manager for the refining indus-

try in the water treatment chemicals group

at Nalco Chemical Company... LARRY J.

REMORT has juned Fell write Corporation

as drilling fluids manager for the company's

oil lield chemicala group... FERRIL MC-

CARTHY bas been named to the newly cre-

ated position of director of marketing ot

FRED E. COOPER has been appointed scn-

for sales representative at Virginia Chemi-

cals Inc... DR. NEAL D. CONRAD has joined

M&T Chemicals Inc. as a senior research

chemist in the company'a plastic additivea

research group... DR. HEINZ RZEHAK haa

been named managar of applied research

and technical aerylce at the Allendale, N.J.,

laboratory of Degussa Corporation'a Chemi-

JEFFREY A. FEISER has been appointed

loville, Wash., will use the proceeds of a \$2

million private placement for expansion of

production facilities for beta carotene at

Kona, Hawall. Cyanotech, a specialty pro-

ducer of high value products from microsi-

gae is based in Woodinville and has larga

scale culture ponds and processing facilities

Widger Chemical Corporation.



Yanshan Patrochemical Corporation. The more open and constructive dialogue among project is part of ao ethylena plant modernall aectors of the soft goods retail and aupply contracted to Combustion Engineer-Lummus Crest fnc. by China Petro-Industry. Chemical International Company.
CYANOTECH CORPORATION, Wood-

MOONEY CHEMICALS INC. has appointed two additional sales agents to supplement its marketing program to the paint and ink industrias. The new agents ara W.T. Bryant & Associates, Cincinnati, and Samuel P. Morelt & Co. Inc., Scarsdale, N.Y/Bryant will cover parta of Cantral and Southern Ohio and Wheeling and Huntington, W.Va. Morell will cover the New York metropolitan area and

DUPONT COMPANY will host a forum for New England. leading industry executives to address com- POWELL DUFFRYN TERMINALS INC. will install a state of the art carbon adsorpbelitive pressures facing the retailing, tex-

Inc., Bloomfield., N.J., has been selected to supply an advanced process control system for the Qianjin Chemical Works of Beijing Project is part of the Project tem, designad to handle a maximum of 56,000 gsilons of runoff water a day. RHONE-POULENC INC.'s Speciatty Plas-

tics Division bas introduced three new 2-part silicone RTV's for molding, tooling and fabricating composites, "Rhodorsil" RTV 565, 1547 and 1556. The three products are svailable in 1 pound, 11 pound, 44 pound and 55-

gs ilon kits. OCIETY OF THE PLASTICS INDUS-TRY's Fall meeting will focus on the use of epoxy formulations in adhesives. Tha meet-12. The program will feature speakars repre-

seml-gases.

**BUSINESS BRIEFS** 

ater treatment sys- STOLT-NIELSEN has taken delivery of the fifth and last of the series of 39,000-dead weight parcel tankars by the builder, Daewoo Shipbuilding & Heavy Machinery Ltd. The tanker will be used on the company's worldwide parcel tanker trade routes, carrying a wide variety of acids, chemicals, edible oila, lubricating oils and additives, and cooled

senting user companies, unlvarsity-indua-

trial centars end suppliars. Product liability

insurance will also be covered at the Fall

UNICHEMA CHEMIE BY, the Netherlands. part of the Unilever Group, has started up a new production facility for high purity dimer fatty acids, in addition to increasing capacing will be held at the Marriott City Center lty, the new facility and bles Unichemia to add new grades of dimer fatty acids to its line of

September 1, 1968